Marine Catalogue 2012

whisper power

smart energy solutions

The Perfect Power System

ALL-IN-ONE POWER SYSTEM

- 3.8 kW 1 cil. diesel generator connected to a 2.0 / 3.5 kW sine wave inverter
- Built-in charger for 12, 24 or 48 VDC batteries
- Extended power control panel
- Land power connection
- Variable speed 2500 – 3400 rpm
- Fully automatic operation
- Silent, liquid cooled diesel engine
- AGM or GEL batteries optional

GV 7i Genverter (also available with two cilinder diesel engine)

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ELECTRICAL PROPULSION SYSTEMS

Ask for our new Hybrid Brochure

Service & Support

WhisperPower’s service and support goes way beyond production and sales.
We remain responsible for our products, systems and accessories, providing all necessary service and support before, during and after your purchase.
This ranges from systems recommendations and installation to first class service for maintenance and repairs.

Global sales & distribution network

The growing network of WhisperPower dealers and distributors covers the world.

Our international brand is locally represented by companies including bodywork manufacturers, shipyards, electrical and mechanical contractors and sector specific companies. Their trained specialists and professionals are available for servicing mobile, maritime or domestic applications.

24/7 Hotline for Service & Support

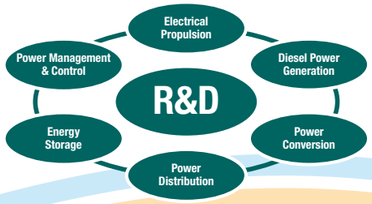
Our technical service is available in case of malfunctions or repairs. Contact us directly 24/7 from anywhere in the world via the international WhisperPower Hotline Service & Support line on +31 512 571 555.
We will provide support ourselves where possible, or bring you into contact with our local representative.

Minimal downtime during repairs

If necessary, WhisperPower will carry out repairs or maintenance of our products at another location, in a regional workshop or at our head office. In most cases you will be provided with a replacement solution to ensure that your system downtime is kept to a minimum.

Introducing:

We are proud to introduce you to our company, WhisperPower. Established in 2007 by a highly experienced team of experts, the company has quickly developed into a reliable supplier of power systems that are successfully used all over the world. From China to the US, from Monaco to Stavanger, from Amsterdam to Santos Brasilia.



Research & Development is a core activity at WhisperPower. Our Engineering Department develops smart solutions for all areas of the energy system, which serve as the foundation for innovative products and ensure you top quality and maximum efficiency.

This catalogue presents the comprehensive WhisperPower product range

For land and maritime applications, for professional as well as recreational use. We offer a superb selection of advanced high-tech products that meet the very highest requirements.
From generators with capacities from 3.5 to 200 kVA and matching components to custom-composed systems and our series of innovative 'all-in-one' gensets.

Efficient, clean and sustainable systems

WhisperPower offers everything you need for an efficient, clean and exceptionally quiet power system: Smart energy solutions in every aspect. Our top-quality systems and components come with excellent warranty conditions backed up by a healthy global service network. Each product is characterised by its sustainable and reliable operation and exceptionally long life-span as WhisperPower provides premium quality and genuine value for money.

smart energy solutions

The R&D specialists at WhisperPower develop intelligent, sustainable and above all innovative solutions for every product. One of their current areas of focus is the further development of hybrid technology and power electronics based systems. The use of high-tech mechatronics - the combination of mechanics and electronics - is always centre stage. This offers the foundation for eco-friendly reliability and compact, whisper-quiet generator systems that have the least possible impact on the environment.

This includes electrically controlled diesel engines that supply a constant power quality and optimal efficiency at any speed, resulting in minimal fuel consumption and negligible emissions.The exceptional production and assembly processes at WhisperPower combine our own expertise with outside support when necessary.

Part of the manufacturing process is performed in-house while others are outsourced to leading manufacturers and suppliers worldwide. At all times the entire process remains in the specialist hands of WhisperPower in order to ensure that each product meets the very strictest requirements. A responsible approach to energy is a vital aspect for WhisperPower. This is typified by our headquarters in the green Dutch province of Friesland, where we have been located since January 2009.

*The building is a showcase for the very latest thinking in terms of energy-friendly sustainability and includes facilities such as solar cells and climate control based on an eco-energy recovery system. We save as much energy as possible in all our daily operations, using thermal storage for residual heat or power.
Tours of these groundbreaking new premises are available upon request.*

A young but highly experienced company

WhisperPower

*The not-so-hidden force behind WhisperPower is Roel J. ter Heide, who has been professionally involved in the development of sustainable and independent power systems since the 1980s.
In 2007 Roel and a team of experienced professionals gave a new impulse to his enthusiasm for this industry by establishing the independent company WhisperPower. The new and energetic company started off with a wealth of knowledge and experience; an excellent foundation for success. Ter Heide's focus is on innovative and sustainable generator systems, hybrid technology and, among other things, the further development of emission-neutral fuel cells. WhisperPower has already raised the global standard in the field of energy systems, and will continue to do so in the future.*

For small and large power demands

WhisperPower aims to be your reliable partner in energy. We offer a wealth of expertise to provide you with the best possible solutions. Road signs or household power, large-scale consumption for professional or recreational purposes, fire engines or tugboats; whatever your energy demands, WhisperPower can provide you with the most intelligent solution and an excellent service network.

Leading in sustainability and intelligent systems

WhisperPower is a global leader in the field of sustainability, with an ever-increasing range of 'all-in-one' Genverter systems; compact, efficient and, if possible, hybrid power systems that combine all the necessary functions. Generator, battery, inverter, switch system and power management; all components are perfectly balanced within a single smart system. One compact box provides a complete system that is easy to install without cabling or component issues.

Whisper-silent operation and low emissions

With WhisperPower you achieve silent power generation with maximum efficiency and minimal emissions. Operation and power management are unprecedentedly easy thanks to the intelligent application of electronics and display technologies. This makes every WhisperPower system easy to operate, even via remote control or wireless internet.

Global service network

Based on the widespread previous experience of the company founders, WhisperPower established a global network for distribution, sales and service within a short time. Our end users can count on professional support and all the service expected from a premium brand. Providing the necessary training and documentation, we ensure that every WhisperPower system and product is supported by an appropriate degree of expertise and experience.

Rest assured

Choosing WhisperPower gives you the assurance of the global WhisperPower WarrantyPlan. We continue to take responsibility for our products long after the delivery, just as parents do for their children.

WhisperPower has a great deal to offer, now and in the future, including the best possible solution for your energy demands. This catalogue is designed to introduce you to our complete range of silent, sustainable and independent power systems.
We look forward to providing you with more personally tailored information!

M-GV 4 Basic Genverter

Variable speed generator

M-GV 4 Basic, service side

DDC control panel 'Digital Diesel Control', supplied as standard with all sets

Art. no.		
41002005	M-GV 4 Basic 230 V / 3.8 kVA	wet exhaust

AC SYSTEM SPECIFICATIONS

System output continuous	3.8 kW at max rpm
Max output power	36 A
Output voltage / frequency	230 V / 50 Hz [1])
Harmonic distortion	< 5%
Parallel operation	max. 2 units

ALTERNATOR SPECIFICATIONS

Type	Permanent Magnet Alternator (PM)
RPM range	2500-3400 rpm
Efficiency	94%

ENGINE SPECIFICATIONS

Engine	WhisperPower
Number of cylinders	1
Capacity	300 cc
Engine cooling	indirect watercooling
Fuel consumption (no load - full load)	0.8 - 1.5 l/hr
Starting	electrical - 12 Volt
Starter battery	12 V / 55 Ah (optional)
12 V Batterycharger	included

REMOTE CONTROL FOR GENVERTER BASIC

40209102	DDC panel: Digital Diesel Control, standard for every Whisper generator See page 30 for optional displays, controls and pc-link	standard

ACCESSORIES FOR M-GV 4 BASIC, M-GV 4DC AND M-GV 7i

40230201	Water inlet kit 12.5 mm (1/2")	wet exhaust
40230272	Syphon breaker kit 12.5 mm (1/2")	wet exhaust
40230251	DELTA Exhaust kit 40 mm (1 5/8")	wet exhaust
40230261	DELTA Water-gas separ. kit 40 mm (1 5/8")	wet exhaust

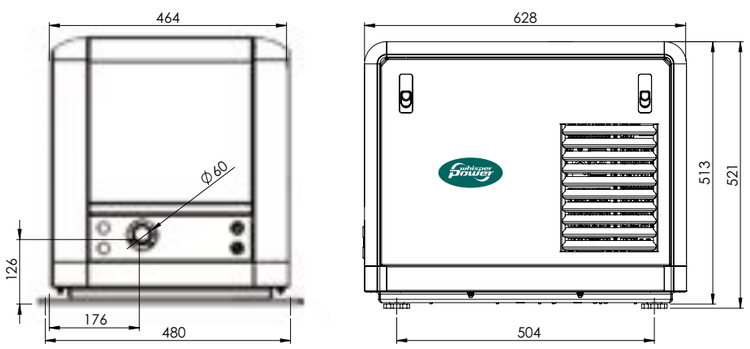
1) 120 V / 60 Hz optional, available late 2011

NEW
Look at our website for our Belt Power Belt driven generator (3.5 & 5 kW)

DIMENSIONS & WEIGHT

Length:	630 mm
Width:	480 mm
Height:	520 mm
Dry weight:	92 kg
Dry exhaust pipe:	Ø 1 5/8 inch BSP thread

INSTALLATION DRAWING M-GV 4 BASIC



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M-GV 4DC Genverter

DC generator / Battery charger

DC Generator / Battery charger

DDC control panel 'Digital Diesel Control', supplied as standard with all sets

Art. no.		
41003005	M-GV 4DC	available mid 2012. Will also become available with two cilinder diesel engine.

DC SYSTEM SPECIFICATIONS

Input voltage (grid)	90 - 260 VAC
Input frequency (grid)	47 - 63 Hz
Battery voltage, nominal	24 VDC or 48 VDC
Battery charging current	150 A at 24 VDC or 75 A / 48 VDC
Charge characteristic	3-step, IUoUo, temp. compensated

ALTERNATOR SPECIFICATIONS

Type	Permanent Magnet Alternator (PM)
Continuous rated power 3000 rpm	3.3 kW
Efficiency	94%
RPM	variable speed or fixed

ENGINE SPECIFICATIONS

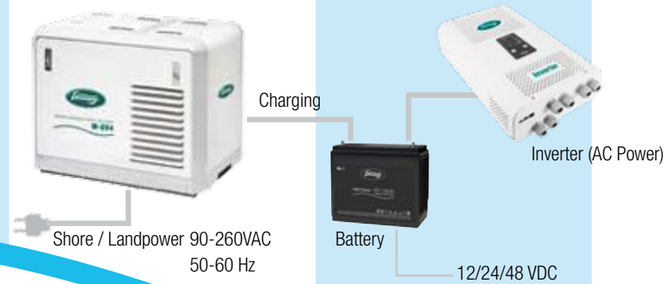
Engine	WhisperPower
Cylinder	1
Capacity	300 cc
Engine cooling	indirect watercooling
Fuel consumption (no load - full load)	0.8 - 1.5 l/hr
Starting	electrical
Starter battery	12 V / 55 Ah (optional)
12 V Batterycharger	included

REMOTE CONTROL FOR GENVERTER 4DC GENERATOR

40209102	DDC panel: Digital Diesel Control, standard for every Whisper generator	standard

FOR ACCESSORIES SEE M-GV 4 BASIC (PAGE 6)

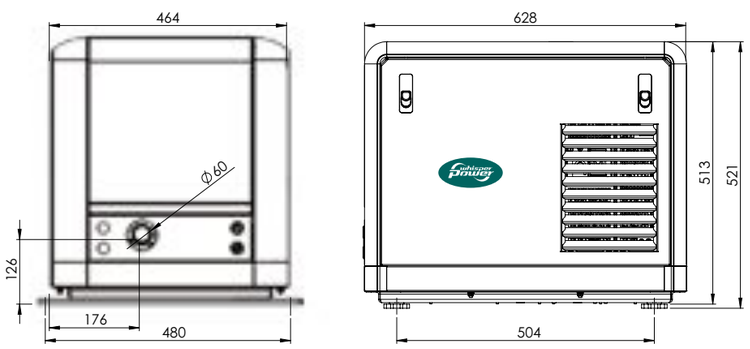
EXAMPLE OF USE: GENVERTER M-GV 4DC



DIMENSIONS & WEIGHT

Length:	630 mm
Width:	480 mm
Height:	520 mm
Dry weight:	80 kg
Dry exhaust pipe:	Ø 1 5/8 inch BSP thread

INSTALLATION DRAWING M-GV 4DC



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M-GV 7i Genverter

Hybrid generator variable speed

M-GV 7i Generator

Genverter M-GV 7i
Genverter Power Centre
(inverter/battery Charger)

Genverter M-GV 7i Monitoring & Control panel: Generator Control (DDC), Extended Inverter / Charger Control + Ah Counting.

Art. no.		
41004205	M-GV 7i 230 V / 3.8 kVA + 2.0 kVA 12 VDC Combi, wet exhaust [1]	
41004405	M-GV 7i 230 V / 3.8 kVA + 3.5 kVA 24 VDC Combi, wet exhaust [1]	
41004805	M-GV 7i 230 V / 3.8 kVA + 3.5 kVA 48 VDC Combi, wet exhaust [1]	
	Variable speed	2400-3400 rpm
	Combined system output	7 kW / 24/48 VDC, 5.8 kW / 12 V models
	Generator power (running engine)	3.8 kW
	Silent power (inverter mode)	2.0 kVA / 12 V, 3.5 kVA 24/48 VDC

INVERTER / GENERATOR SPECIFICATIONS

Peak output AC	60.0 A
Nominal voltage AC	230 Vac
Nominal current AC (combined)	30.0 A
Nominal frequency AC	50.0 Hz
Thd nominal operation AC	<5%
Leading or lagging power factor	0,1 - 1
Parallel use (multiple systems)	Not possible
Capacity (starter) battery (AGM)	12 V 55 Ah
Starter battery charge current	10 A maintenance charger

BATTERY CHARGER SPECIFICATIONS

Charge current	12V model 100A, 24V model 90A, 48V model 50A
Charge characteristic	3-step, IUoUo
AC Shorepower	190 - 260 Vac
Temperature sensor	Yes

MECHANICAL SPECIFICATIONS

Cooling	indirect watercooling
Max. Operation angle (in all directions)	25º
Temperature range operational	-20ºC to 60ºC
Relative humidity	Max. 95% relative humidity, none condensing
Remote control	Genverter 7i Control

DIESEL ENGINE

Engine model	Whisper WP1
Number of cylinders	1
Cylinder capacity	300 cc
Air consumption	0.42 m^3/min @3000rpm
Engine cooling	indirect watercooling
Fuel consumption (no load-full load)	0.8-1.5 ltrs/hrs

FOR ACCESSORIES SEE M-GV 4 BASIC (PAGE 6)

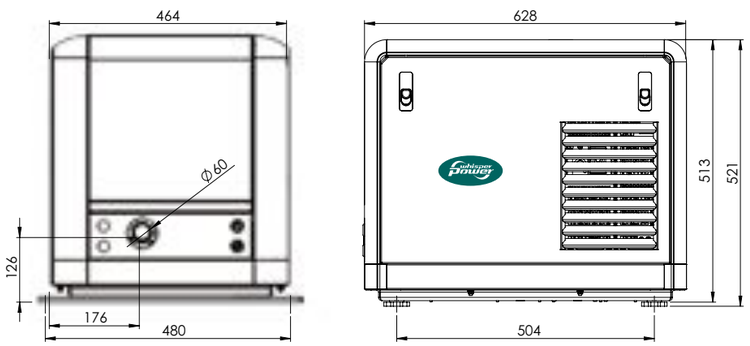
[1] Delivered with separate Combi inverter / charger cabinet HxWxD 500 x 316 x 360 mm Weight appr. 20 Kg.

DIMENSIONS & WEIGHT

	Generator	Combi - enclosure
Length:	630 mm	500 mm
Width:	480 mm	360 mm
Height:	520 mm	300 mm
Dry weight:	92 kg	25 kg

Dry exhaust pipe: Ø 1 5/8 inch BSP inner thread

INSTALLATION DRAWING M-GV 7i



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Whisper Power Centre (Included with GV 7i)

An essential part of the GENVERTER 7i is the Whisper Power Centre, which ensures a perfect 230 V sine wave output, even when the diesel is not running. When shore power is available, the advanced battery charger is switched on to replenish the batteries. Switching from one voltage source to another occurs with virtually no interruption.
The Whisper Power System Panel combines the monitoring and control of the generator element and the Power Centre (specifications in right column).

Model name	WPC-2000-12*	WPC-3500-24*	WPC-4000-48*
Art. Nr.	60201001	60201002	60201003
Technical specifications			
Inverter			
Nominal battery voltage	12 VDC	24 VDC	48 VDC
Input voltage range	9.5..17 VDC	19..34 VDC	38..68 VDC
Continuous power @ 25°C	2000VA	3000VA	3500VA
Power 30 min. @ 25°C	2000VA	3500VA	4000VA
Power 5 sec. @ 25°C	6000VA	9000VA	10500VA
Maximum load	Up to short-circuit (fully protected)		
Maximum a-symmetric load	Up to continuous power		
Load detection (stand-by)	2 to 25W (AES) Automatic Enable System		
Power factor	0.1..1		
Maximum efficiency	93%	94%	96%
Consumption OFF/Stand-by/ON	1.4W/1.6W/9W	1.4W/1.6W/12W	1.8W/2.1W/14W
Output voltage	Pure sine wave 230 VAC (+/- 2%)		
Output frequency	50Hz / 60Hz (1) +/- 0.05% (crystal controlled)		
Harmonic distortion (Voltage)	<2% THD		
Overload and short-circuit protection	Automatic disconnection with 3 time restart attempt		
Overheat protection	Warning before shut-off with automatic restart		
Battery charger			
Charge Characteristic	6-step Bulk-Absorption-Floating-Equalization-reduced floating-periodic absorption. Number of steps, thresholds, return amps completely adjustable.		
Maximum charging current	100A	90A	50A
2nd Output	5A 3-step Charger	5A 3-step Charger	None
Temperature compensation	With Whisper temperature sensor WPC-BTS		
Power Factor Correction (PFC)	EN 61000-3-2		
General data			
Input voltage range	150 to 250 VAC		
Input frequency	45 to 65 Hz		
Input current max. (transfer relay) / Output current max.	30A / 38A	30A / 45A	30A / 47A
Transfer time	<15ms		
Weight	25 kg	28 kg	28 kg
Dimension hxwxd [mm]	540 x 330 x 150		
Protection degree	IP21		
Color	RAL 9010		
Conformity	Directive EMC 2004/108/EC : EN 61000-6-1, EN 61000-6-3, EN 55014, EN 55022, EN 61000-3-2, 62040-2. Low voltage directive 2006/95/EC : EN 62040-1-1, EN 50091-2, EN 60950-1		
Operating temperature range	-20..+40°C, derating to 55°C		
Relative humidity in operation	95% without condensation		
Ventilation	Forced from 45°C		
Acoustic level	<40dB / <45dB (without/with ventilation)		
Warranty	2 years		

*) Designed to operate with Whisper SC & SQ diesel generators.
'Powerbox' delivered as part of the Genverter 7i

System control Art. no.	WPC-PSCP 60201050
Compatible generators	All DDC controlled WhisperPower generators
Compatible combi's	Whisper Power Centre Series
Power supply	Integrated in communication lines
Generator control	**WhisperPower SC - SQ - GV Series**
Displayed data	AC voltage, current, power, time before maintenance etc.
Alarm readout	On display and by an aux. contact
Generator load readout	By LED bar and real KVA on LCD screen
Changer/Inverter control	**WPC series**
Displayed input data	AC Voltage, current, power (Grid, genset)
Displayed output data	AC Voltage, current, power
Displayed battery data	DC Voltage, current, power, State of Charge*
Alarm readout	Audible alarm
Quick setting	Land/Shore input current limit
Displays	
Display type	2 LCD display's
Backlight	Green
Connections	
Type of generator connection	DDC bus (Digital Diesel Control), RJ45
Type of combi connection	WPC bus (WPC communication BUS), RJ45
Type of auto-start/stop connection	12 VDC Analog (differential input)
Mechanical specifications	
Dimensions (LxWxH)	195 x 120 x 55 mm
Weight	400 g
Temperature range	0-40ºC
Drilling dimension	185 x110 mm
Protection degree	IP20

* only with BSI-500 required

M-SC 3.5
Diesel generator
3.000 RPM
Super Compact series

DDC control panel 'Digital Diesel Control',
supplied as standard with all sets

Art. no.		
40900600	M-SC 3.5 230 V / 50 Hz MARINE	wet exhaust
41200500	M-SC 3.5 230 V / 50 Hz MARINE/MB	wet exhaust

MAIN SPECIFICATIONS

Nominal power [2]	3 kW at 3.000 RPM
Nominal voltage [3]	230 V - 13 A
Output frequency	50 Hz
Power factor / cos phi	1
Voltage tolerance	± 7%
Frequency tolerance (Hz)	± 5%
Voltage regulation	capacitor
Starter battery	12 V (Optional)
Battery charge current	auxiliary winding 4 A
Alternator	water-cooled, no brushes, synchronous
Sound level [4]	58 dBA

SPECIFICATIONS DIESEL ENGINE

Engine model	OC60
Number of cylinders	1
Cylinder capacity	276 cc
Bore & stroke	72 x 68 mm
Air consumption	0.38 m³/min
Engine cooling	oil-cooled
Fuel consumption (no load - full load)	0.7-1.2 l/hour

REMOTE CONTROL FOR WHISPER GENERATOR

40209102	DDC panel: Digital Diesel Control, standard for every Whisper generator	standard
40209102	Additional 2nd panel: DDC panel/slave version for second start/stop location	plus price
	See page 30 for optional displays, controls and pc-link	

ACCESSORIES & OPTIONS

40900606	M-SC 3.5 230 V / 50 Hz MARINE	ungrounded, wet exhaust
40900655	M-SC 3.5 120 V / 60 Hz MARINE	USA version, wet exhaust
40230201	Water inlet kit 12.5 mm (1/2")	wet exhaust
40230272	Syphon breaker kit 12.5 mm (1/2")	wet exhaust
40230251	DELTA Exhaust kit 40 mm (1 5/8")	wet exhaust
40230261	DELTA Water-gas separ. kit 40 mm (1 5/8")	wet exhaust
40230207	Base plate kit M-SC 3.5	
40230217	Anti-vibration mounts, up to 280 kg	

[2] peak power 200% [3] 120 V-240 V / 50 or 60 Hz available as well [4] at 7 mtrs

DIMENSIONS & WEIGHT

Length:	505 mm
Width:	400 mm
Height:	500 mm
Dry weight:	97 kg
Dry exhaust pipe:	Ø 1 inch BSP
Wet exhaust:	Ø 40 mm
Location oil refill cap:	top & side
Max. operating angle:	25° in all directions

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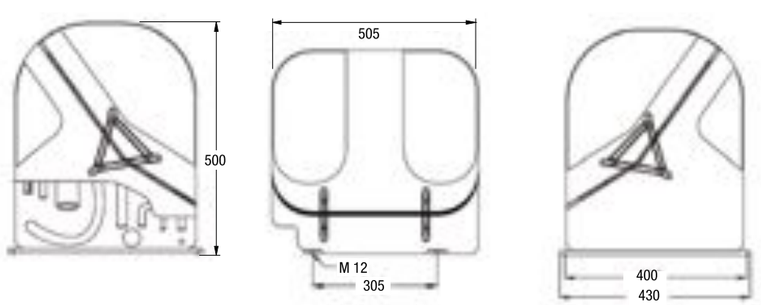
INSTALLATION DRAWING M-SC 3.5



M-SC 6
Diesel generator
3.000 RPM
Super Compact series

M-SC 6 in metal sound shield

M-SC 6P in polyester sound shield

Art. no.		
41102005	M-SC 6 230 V / 50 Hz MARINE	wet exhaust
40902005	M-SC 6 230 V / 50 Hz MARINE P	wet exhaust

MAIN SPECIFICATIONS

Nominal power [2]	5 kW at 3.000 RPM
Nominal voltage [3]	230 V - 22 A
Output frequency	50 Hz
Power factor / cos phi	1
Voltage tolerance	± 5%
Frequency tolerance (Hz)	± 5%
Voltage regulation	capacitor
Starter battery	12 V (Optional)
Battery charge current	alternator 40 A
Alternator	water-cooled, no brushes, synchronous
Sound level [4]	56 dBA

SPECIFICATIONS DIESEL ENGINE

Engine model	L2E
Number of cylinders	2
Cylinder capacity	635 cc
Bore & stroke	2 x 76 x 70 mm
Air consumption	0.95 m³/min
Engine cooling	indirect watercooling
Fuel consumption (no load - full load)	1-2.5 l/hour

REMOTE CONTROL FOR WHISPER GENERATOR

40209102	DDC panel: Digital Diesel Control, standard for every Whisper generator	standard
40209102	Additional 2nd panel: DDC panel/slave version for second start/stop location	plus price
	See page 30 for optional displays, controls and pc-link	

ACCESSORIES & OPTIONS

41102006	M-SC 6 230 V / 50 Hz MARINE	ungrounded, wet exhaust
41102030	M-SC 6 230 V / 50 Hz MARINE	keelcooling, dry exhaust
41102055	M-SC 6 120/240 V / 60 Hz MARINE	USA version, wet exhaust
40230211	Water inlet kit 20 mm (3/4")	wet exhaust
40230273	Syphon breaker kit 20 mm (3/4")	wet exhaust
40230251	DELTA Exhaust kit 40 mm (1 5/8")	wet exhaust
40230261	DELTA Water-gas separ. kit 40 mm (1 5/8")	wet exhaust
40230209	Base plate kit M-SC 6P	only for polyester version
40230217	Anti-vibration mounts, up to 280 kg	only for polyester version
40201303	Boxcooler kit	keelcooling, dry exhaust
40201320	Dry exhaust kit 1"	keelcooling, dry exhaust

[2] peak power 200% [3] 120 V-240 V / 50 or 60 Hz available as well [4] at 7 mtrs

DIMENSIONS & WEIGHT

	M-SC 6	M-SC 6P
Length:	690 mm	660 mm
Width:	525 mm	495 mm
Height:	580 mm	550 mm
Dry weight:	184 kg	178 kg
Dry exhaust pipe:	Ø 1 inch BSP	
Wet exhaust:	Ø 40 mm	
Location oil refill cap:	top & side	
Max. operating angle:	25° in all directions	

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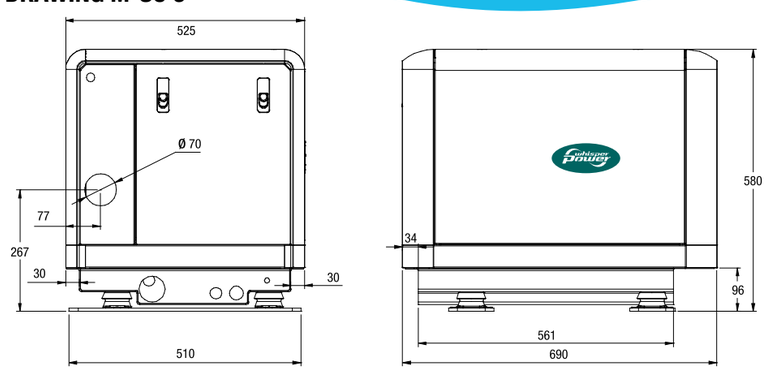
INSTALLATION DRAWING M-SC 6



M-SC 8
Diesel generator
3.000 RPM
Super Compact series

M-SC 8 in metal sound shield

M-SC 8P in polyester sound shield

Art. no.		
41103005	M-SC 8 230 V / 50 Hz MARINE	wet exhaust
40903005	M-SC 8 230 V / 50 Hz MARINE P	wet exhaust

MAIN SPECIFICATIONS

Nominal power [2]	6,4 kW at 3.000 RPM
Nominal voltage [3]	230 V - 28 A
Output frequency	50 Hz
Power factor / cos phi	1
Voltage tolerance [4]	± 5%
Frequency tolerance (Hz) [4]	± 1%
Voltage regulation	capacitor
Starter battery	12 V (Optional)
Battery charge current	alternator 40 A
Alternator	water-cooled, no brushes, synchronous
Sound level [5]	56 dBA

SPECIFICATIONS DIESEL ENGINE

Engine model	L2E
Number of cylinders	2
Cylinder capacity	635 cc
Bore & stroke	2 x 76 x 70 mm
Air consumption	0.95 m³/min
Engine cooling	indirect watercooling
Fuel consumption (no load - full load)	1-2.5 l/hour

REMOTE CONTROL FOR WHISPER GENERATOR

40209102	DDC panel: Digital Diesel Control, standard for every Whisper generator	standard
40209102	Additional 2nd panel: DDC panel/slave version for second start/stop location	
	See page 30 for optional displays, controls and pc-link	

ACCESSORIES & OPTIONS

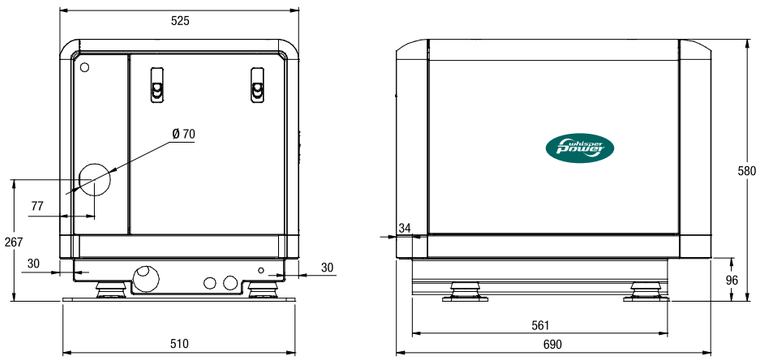
41103006	M-SC 8 230 V / 50 Hz MARINE	ungrounded, wet exhaust
41103055	M-SC 8 120/240 / V 60 Hz MARINE	USA version, wet exhaust
40230211	Water inlet kit 20 mm (3/4")	wet exhaust
40230273	Syphon breaker kit 20 mm (3/4")	wet exhaust
40230251	DELTA Exhaust kit 40 mm (1 5/8")	wet exhaust
40230261	DELTA Water-gas separ. kit 40 mm (1 5/8")	wet exhaust
40230209	Base plate kit M-SC 8P	only for polyester version
40230217	Anti-vibration mounts, up to 280 kg	only for polyester version
40201303	Boxcooler kit	keelcooling, dry exhaust
40201320	Dry exhaust kit 1"	keelcooling, dry exhaust

[2] peak power 200% [3] 120 V-240 V / 50 or 60 Hz available as well [4] controlled by electronic governor [5] at 7 mtrs

DIMENSIONS & WEIGHT

	M-SC 8	M-SC 8P
Length:	690 mm	660 mm
Width:	525 mm	495 mm
Height:	580 mm	550 mm
Dry weight:	184 kg	178 kg
Dry exhaust pipe:	Ø 1 inch BSP	
Wet exhaust:	Ø 40 mm	
Location oil refill cap:	top & side	
Max. operating angle:	25° in all directions	

INSTALLATION DRAWING M-SC 8



smart energy solutions

M-SC 10
Diesel generator
3.000 RPM
Super Compact series

M-SC 10 in metal sound shield

M-SC 10P in polyester sound shield

Art. no.		
41104005	M-SC 10 230 V / 50 Hz MARINE	wet exhaust
40904005	M-SC 10 230 V / 50 Hz MARINE P	wet exhaust

MAIN SPECIFICATIONS

Nominal power [2]	9,4 kW at 3.000 RPM
Nominal voltage [3]	230 V - 40 A
Output frequency [3]	50 Hz
Power factor / cos phi	1
Voltage tolerance [4]	± 5%
Frequency tolerance (Hz) [4]	± 1%
Voltage regulation	capacitor
Starter battery	12 V (Optional)
Battery charge current	alternator 40 A
Alternator	water-cooled, no brushes, synchronous
Sound level [5]	58 dBA

SPECIFICATIONS DIESEL ENGINE

Engine model	L3E
Number of cylinders	3
Cylinder capacity	952 cc
Bore & stroke	3 x 76 x 70 mm
Air consumption	1.43 m³/min
Engine cooling	indirect watercooling
Fuel consumption (no load - full load)	1-4 l/hour

REMOTE CONTROL FOR WHISPER GENERATOR

40209102	DDC panel: Digital Diesel Control, standard for every Whisper generator	standard
40209102	Additional 2nd panel: DDC panel/slave version for second start/stop location	
	See page 30 for optional displays, controls and pc-link	

ACCESSORIES & OPTIONS

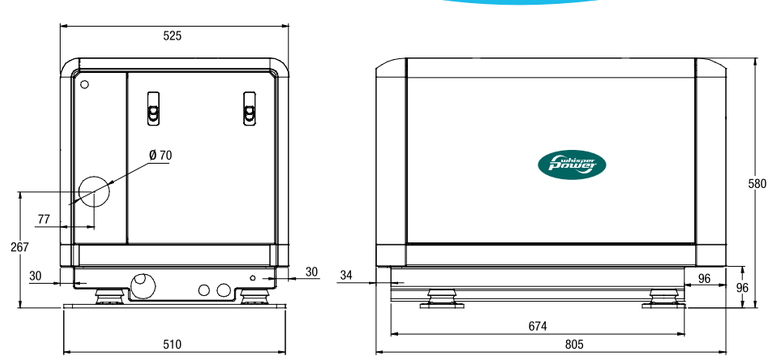
41104006	M-SC 10 230 V / 50 Hz MARINE	ungrounded, wet exhaust
41104055	M-SC 11 120/240 V / 60 Hz MARINE	USA version, wet exhaust
40230211	Water inlet kit 20 mm (3/4")	wet exhaust
40230273	Syphon breaker kit 20 mm (3/4")	wet exhaust
40230251	DELTA Exhaust kit 40 mm (1 5/8")	wet exhaust
40230261	DELTA Water-gas separ. kit 40 mm (1 5/8")	wet exhaust
40201303	Boxcooler kit	keelcooling, dry exhaust
40201875	Dry exhaust kit 1 1/2"	keelcooling, dry exhaust

[2] peak power 200% [3] 120 V-240 V / 50 or 60 Hz available as well [4] controlled by electronic governor [5] at 7 mtrs

DIMENSIONS & WEIGHT

	M-SC 10	M-SC 10P
Length:	805 mm	810 mm
Width:	525 mm	525 mm
Height:	580 mm	615 mm
Dry weight:	215 kg	210 kg
Dry exhaust pipe:	Ø 1.5 inch BSP	
Wet exhaust:	Ø 40 mm	
Location oil refill cap:	top & side	
Max. operating angle:	25° in all directions	

INSTALLATION DRAWING M-SC 10



smart energy solutions

M-SQ 6
Diesel generator
1.500 RPM
Super Quiet series

DDC control panel 'Digital Diesel Control',
supplied as standard with all sets

Art. no.		
41105005	M-SQ 6 230 V / 50 Hz MARINE	wet exhaust

MAIN SPECIFICATIONS

Nominal power [2]	5,7 kW at 1.500 RPM
Nominal voltage [3]	230 V - 25 A
Output frequency	50 Hz
Power factor / cos phi	1
Voltage tolerance [4]	± 5%
Frequency tolerance (Hz) [4]	± 1%
Voltage regulation	capacitor
Starter battery	12 V (Optional)
Battery charge current	alternator 40 A
Alternator	water-cooled, no brushes, synchronous
Sound level [5]	51 dBA

SPECIFICATIONS DIESEL ENGINE

Engine model	L3E
Number of cylinders	3
Cylinder capacity	952 cc
Bore & stroke	3 x 76 x 70 mm
Air consumption	0.8 m³/min
Engine cooling	indirect watercooling
Fuel consumption (no load - full load)	1-3 l/hour

REMOTE CONTROL FOR WHISPER GENERATOR

40209102	DDC panel: Digital Diesel Control, standard for every Whisper generator	standard
40209102	Additional 2nd panel: DDC panel/slave version for second start/stop location	
	See page 30 for optional displays, controls and pc-link	

ACCESSORIES & OPTIONS

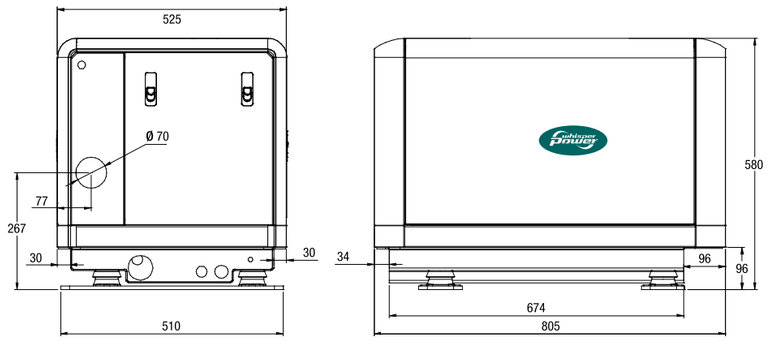
41105006	M-SQ 6 230 V / 50 Hz MARINE	ungrounded, wet exhaust
41105030	M-SQ 6 230 V / 50 Hz MARINE	keelcooling, dry exhaust
41105055	M-SQ 6 120/240 V / 60 Hz MARINE	USA version, wet exhaust
40230211	Water inlet kit 20 mm (3/4")	wet exhaust
40230273	Syphon breaker kit 20 mm (3/4")	wet exhaust
40230251	DELTA Exhaust kit 40 mm (1 5/8")	wet exhaust
40230261	DELTA Water-gas separ. kit 40 mm (1 5/8")	wet exhaust
40201303	Boxcooler kit	keelcooling, dry exhaust
40201875	Dry exhaust kit 1 1/2"	keelcooling, dry exhaust

[2] peak power 200% [3] 120 V-240 V / 50 or 60 Hz available as well [4] controlled by electronic governor [5] at 7 mtrs

DIMENSIONS & WEIGHT

Length:	805 mm
Width:	525 mm
Height:	580 mm
Dry weight:	240 kg
Dry exhaust pipe:	Ø 1.5 inch BSP
Wet exhaust:	Ø 40 mm
Location oil refill cap:	top & side
Max. operating angle:	25º in all directions

INSTALLATION DRAWING M-SQ 6



smart energy solutions

M-SQ 8
Diesel generator
1.500 RPM
Super Quiet series

DDC control panel 'Digital Diesel Control',
supplied as standard with all sets

Art. no.		
41106005	M-SQ 8 230 V / 50 Hz MARINE	wet exhaust

MAIN SPECIFICATIONS

Nominal power [2]	8 kW at 1.500 RPM
Nominal voltage [3]	230 V - 35 A
Output frequency	50 Hz
Power factor / cos phi	1
Voltage tolerance	± 5%
Frequency tolerance (Hz)	± 5%
Voltage regulation	capacitor
Starter battery	12 V (Optional)
Battery charge current	alternator 50 A
Alternator	water-cooled, no brushes, synchronous
Sound level [4]	54 dBA

SPECIFICATIONS DIESEL ENGINE

Engine model	S3L2
Number of cylinders	3
Cylinder capacity	1318 cc
Bore & stroke	3 x 78 x 92 mm
Air consumption	1.1 m³/min
Engine cooling	indirect watercooling
Fuel consumption (no load - full load)	1-3 l/hour

REMOTE CONTROL FOR WHISPER GENERATOR

40209102	DDC panel: Digital Diesel Control, standard for every Whisper generator	standard
40209102	Additional 2nd panel: DDC panel/slave version for second start/stop location	
	See page 30 for optional displays, controls and pc-link	

ACCESSORIES & OPTIONS

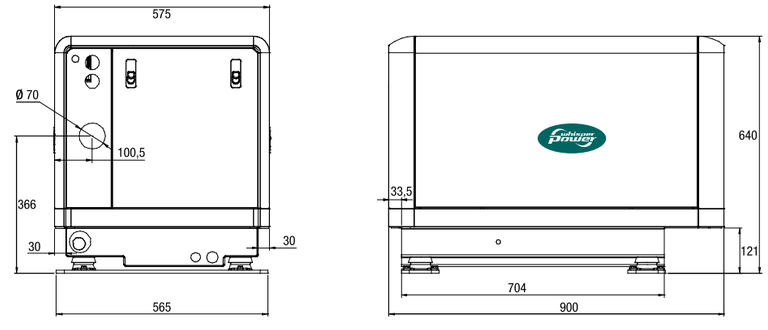
41106006	M-SQ 8 230 V / 50 Hz MARINE	ungrounded, wet exhaust
41106030	M-SQ 8 230 V / 50 Hz MARINE	keelcooling, dry exhaust
41106055	M-SQ 9.5 120/240 V 60 Hz MARINE	USA version, wet exhaust
40230211	Water inlet kit 20 mm (3/4")	wet exhaust
40230273	Syphon breaker kit 20 mm (3/4")	wet exhaust
40230252	DELTA Exhaust kit 51 mm (2")	wet exhaust
40230262	DELTA Water-gas separ. kit 51 mm (2")	wet exhaust
40201873	Boxcooler kit	keelcooling, dry exhaust
40201875	Dry exhaust kit 1 1/2"	keelcooling, dry exhaust

[2] peak power 200% [3] 120 V-240 V / 50 or 60 Hz available as well [4] at 7 mtrs

DIMENSIONS & WEIGHT

Length:	900 mm
Width:	575 mm
Height:	640 mm
Dry weight:	334 kg
Dry exhaust pipe:	Ø 1.5 inch BSP
Wet exhaust:	Ø 51 mm
Location oil refill cap:	top & side
Max. operating angle:	25º in all directions

INSTALLATION DRAWING M-SQ 8



smart energy solutions

M-SQ 10
Diesel generator
1.500 RPM
Super Quiet series

DDC control panel 'Digital Diesel Control',
supplied as standard with all sets

Art. no.		
41109005	M-SQ 10 230 V / 50 Hz MARINE	wet exhaust

MAIN SPECIFICATIONS

Nominal power [2]	9,4 kW at 1.500 RPM
Nominal voltage [3]	230 V - 40 A
Output frequency	50 Hz
Power factor / cos phi	1
Voltage tolerance [4]	± 5%
Frequency tolerance (Hz) [4]	± 1%
Voltage regulation	capacitor
Starter battery	12 V (Optional)
Battery charge current	alternator 50 A
Alternator	water-cooled, no brushes, synchronous
Sound level [5]	54 dBA

SPECIFICATIONS DIESEL ENGINE

Engine model	S3L2
Number of cylinders	3
Cylinder capacity	1318 cc
Bore & stroke	3 x 78 x 92 mm
Air consumption	1.1 m³/min
Engine cooling	indirect watercooling
Fuel consumption (no load - full load)	1-3 l/hour

REMOTE CONTROL FOR WHISPER GENERATOR

40209102	DDC panel: Digital Diesel Control, standard for every Whisper generator	standard
40209102	Additional 2nd panel: DDC panel/slave version for second start/stop location	
	See page 30 for optional displays, controls and pc-link	

ACCESSORIES & OPTIONS

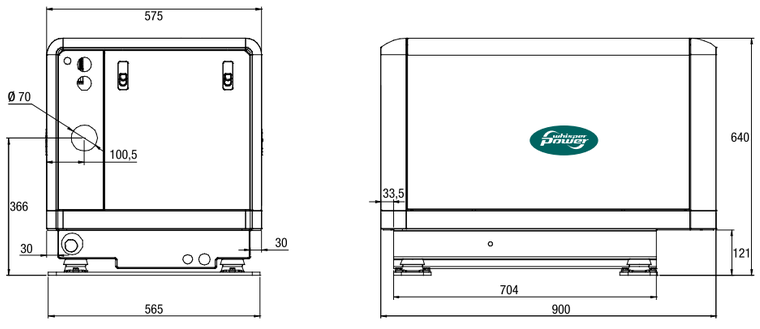
41109006	M-SQ 10 230 V / 50 Hz MARINE	ungrounded, wet exhaust
41109030	M-SQ 10 230 V / 50 Hz MARINE	keelcooling, dry exhaust
41109055	M-SQ 11 120/240 V / 60 Hz MARINE	wet exhaust, USA version
40230211	Water inlet kit 20 mm (3/4")	wet exhaust
40230273	Syphon breaker kit 20 mm (3/4")	wet exhaust
40230252	DELTA Exhaust kit 51 mm (2")	wet exhaust
40230262	DELTA Water-gas separ. kit 51 mm (2")	wet exhaust
40201873	Boxcooler kit	keelcooling, dry exhaust
40201875	Dry exhaust kit 1 1/2"	keelcooling, dry exhaust

[2] peak power 200% [3] 120V-240 V / 50 or 60 Hz available as well [4] controlled by electronic governor [5] at 7 mtrs

DIMENSIONS & WEIGHT

Length:	900 mm
Width:	575 mm
Height:	640 mm
Dry weight:	334 kg
Dry exhaust pipe:	Ø 1.5 inch BSP
Wet exhaust:	Ø 51 mm
Location oil refill cap:	top & side
Max. operating angle:	25° in all directions

INSTALLATION DRAWING M-SQ 10



smart energy solutions

M-SQ 12
Diesel generator
1.500 RPM
Super Quiet series

DDC control panel 'Digital Diesel Control',
supplied as standard with all sets

Art. no.		
41107005	M-SQ 12 230 V / 50 Hz MARINE	

MAIN SPECIFICATIONS

Nominal power [2]	12 kW at 1.500 RPM
Nominal voltage [3]	230 V - 52 A / 3-phase optional
Output frequency	50 Hz
Power factor / cos phi	1
Voltage tolerance [4]	± 5%
Frequency tolerance (Hz) [4]	± 1%
Voltage regulation	capacitor
Starter battery	12 V (Optional)
Battery charge current	alternator 50 A
Alternator	water-cooled, no brushes, synchronous
Sound level [5]	55 dBA

SPECIFICATIONS DIESEL ENGINE

Engine model	S4L2
Number of cylinders	4
Cylinder capacity	1758 cc
Bore & stroke	4 x 78 x 92 mm
Air consumption	1.5 m³/min
Engine cooling	indirect watercooling
Fuel consumption (no load - full load)	1-4 l/hour

REMOTE CONTROL FOR WHISPER GENERATOR

40209102	DDC panel: Digital Diesel Control, standard for every Whisper generator	standard
40209102	Additional 2nd panel: DDC panel/slave version for second start/stop location	
	See page 30 for optional displays, controls and pc-link	

ACCESSORIES & OPTIONS

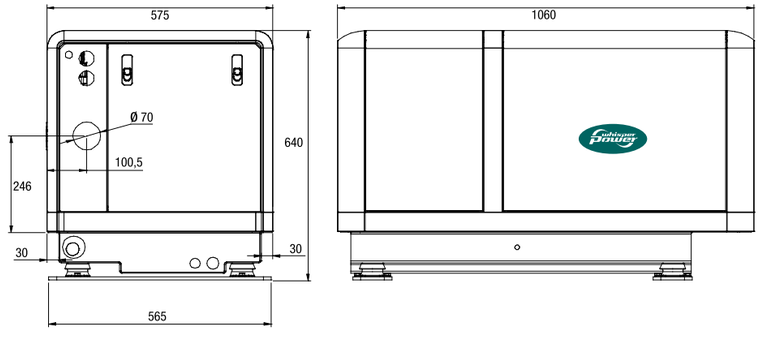
41107006	M-SQ 12 230 V / 50 Hz MARINE	ungrounded, wet exhaust
41107030	M-SQ 12 230 V / 50 Hz MARINE	keelcooling, dry exhaust
41107305	M-SQ 12 230/400 V / 50 Hz MARINE	wet exhaust, 3-phase
41107055	M-SQ 15 120/240 V / 60 Hz MARINE	dual voltage, USA version
41107355	M-SQ 15 120/208 V / 60 Hz MARINE	3-phase, USA version
40230211	Water inlet kit 20 mm (3/4")	wet exhaust
40230273	Syphon breaker kit 20 mm (3/4")	wet exhaust
40230252	DELTA Exhaust kit 51 mm (2")	wet exhaust
40230262	DELTA Water-gas separ. kit 51 mm (2")	wet exhaust
40201873	Boxcooler kit	keelcooling, dry exhaust
40201875	Dry exhaust kit 1 1/2"	keelcooling, dry exhaust

[2] peak power 200% [3] 120 V-240 V / 50 or 60 Hz available as well [4] controlled by electronic governor [5] at 7 mtrs

DIMENSIONS & WEIGHT

Length:	1060 mm
Width:	575 mm
Height:	640 mm
Dry weight:	380 kg
Dry exhaust pipe:	Ø 1.5 inch BSP
Wet exhaust:	Ø 51 mm
Location oil refill cap:	top & side
Max. operating angle:	25° in all directions

INSTALLATION DRAWING M-SQ 12



smart energy solutions

M-SQ 16
Diesel generator
1.500 RPM
Super Quiet series

DDC control panel 'Digital Diesel Control',
supplied as standard with all sets

Art. no.		
41108005	M-SQ 16 230 V / 50 Hz MARINE	

MAIN SPECIFICATIONS

Nominal power [2]	16 kW at 1.500 RPM
Nominal voltage [3]	230 V - 70 A / 3-phase optional
Output frequency	50 Hz
Power factor / cos phi	1
Voltage tolerance	± 5%
Frequency tolerance (Hz)	± 3%
Voltage regulation	capacitor
Starter battery	12 V (Optional)
Battery charge current	alternator 50 A
Alternator	water-cooled, no brushes, synchronous
Sound level [4]	56 dBA

SPECIFICATIONS DIESEL ENGINE

Engine model	S4Q2
Number of cylinders	4
Cylinder capacity	2505 cc
Bore & stroke	4 x 88 x 103 mm
Air consumption	2.1 m³/min
Engine cooling	indirect watercooling
Fuel consumption (no load - full load)	1-5 l/hour

REMOTE CONTROL FOR WHISPER GENERATOR

40209102	DDC panel: Digital Diesel Control, standard for every Whisper generator	standard
40209102	Additional 2nd panel: DDC panel/slave version for second start/stop location	
	See page 30 for optional displays, controls and pc-link	

ACCESSORIES & OPTIONS

41108006	M-SQ 16 230 V / 50 Hz MARINE	ungrounded, wet exhaust
41108030	M-SQ 16 230 V / 50 Hz MARINE	keelcooling, dry exhaust
41108305	M-SQ 16 230/400 V / 50 Hz MARINE	keelcooling, 3-phase
41108055	M-SQ 20 120/240 V / 60 Hz MARINE	dual voltage, USA version
41108355	M-SQ 20 120/208 V / 60 Hz MARINE	3-phase, USA version
40230221	Water inlet kit 25 mm (1")	wet exhaust
40230274	Syphon breaker kit 25 mm (1")	wet exhaust
40230252	DELTA Exhaust kit 51 mm (2")	wet exhaust
40230262	DELTA Water-gas separ. kit 51 mm (2")	wet exhaust
40201874	Boxcooler kit	keelcooling, dry exhaust
40201875	Dry exhaust kit 1½"	keelcooling, dry exhaust

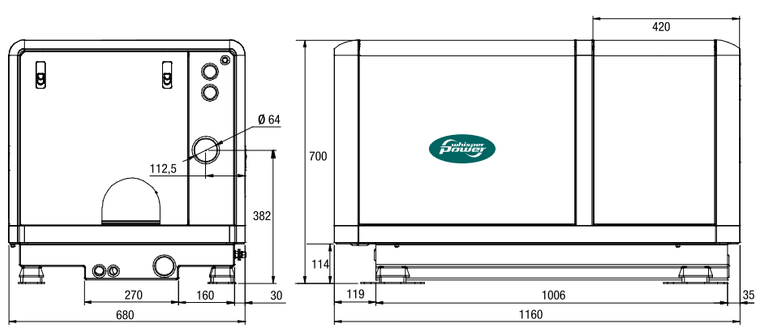
[2] peak power 200% [3] 120 V-240 V / 50 or 60 Hz available as well [4] at 7 mtrs

DIMENSIONS & WEIGHT

Length:	1160 mm
Width:	680 mm
Height:	700 mm
Dry weight:	454 kg
Dry exhaust pipe:	Ø 1.5 inch BSP
Wet exhaust:	Ø 51 mm
Location oil refill cap:	top
Max. operating angle:	25º in all directions

smart energy solutions

INSTALLATION DRAWING M-SQ 16



M-SQ 20
Diesel generator
1.500 RPM
Super Quiet series

DDC control panel 'Digital Diesel Control',
supplied as standard with all sets

Art. no.		
41101205	M-SQ 20 230 V / 50 Hz MARINE	

MAIN SPECIFICATIONS

Nominal power [2]	20 kW at 1.500 RPM
Nominal voltage [3]	230 V - 87 A
Output frequency	50 Hz
Power factor / cos phi	1
Voltage tolerance	± 2%
Frequency tolerance (Hz)	± 3%
Voltage regulation	AVR
Starter battery	12 V (Optional)
Battery charge current	alternator 50 A
Alternator	air-cooled, no brushes, synchronous
Sound level [4]	58 dBA

SPECIFICATIONS DIESEL ENGINE

Engine model	S4S
Number of cylinders	4
Cylinder capacity	3331 cc
Bore & stroke	4 x 94 x 120 mm
Air consumption	2.8 m³/min
Engine cooling	indirect watercooling
Fuel consumption (no load - full load)	1-6 l/hour

REMOTE CONTROL FOR WHISPER GENERATOR

40209102	DDC panel: Digital Diesel Control, standard for every Whisper generator	standard
40209102	Additional 2nd panel: DDC panel/slave version for second start/stop location	
	See page 30 for optional displays, controls and pc-link	

ACCESSORIES & OPTIONS

41101206	M-SQ 20 230 V / 50 Hz MARINE	ungrounded, wet exhaust
41101230	M-SQ 20 230 V / 50 Hz MARINE	keelcooling, dry exhaust
40230221	Water inlet kit 25 mm (1")	wet exhaust
40230274	Syphon breaker kit 25 mm (1")	wet exhaust
40230254	DELTA Exhaust kit 63 mm (2½")	wet exhaust
40230264	DELTA Water-gas separ. kit 63 mm (2½")	wet exhaust
40201894	Boxcooler kit	keelcooling, dry exhaust
40201889	Dry exhaust kit 2"	keelcooling, dry exhaust

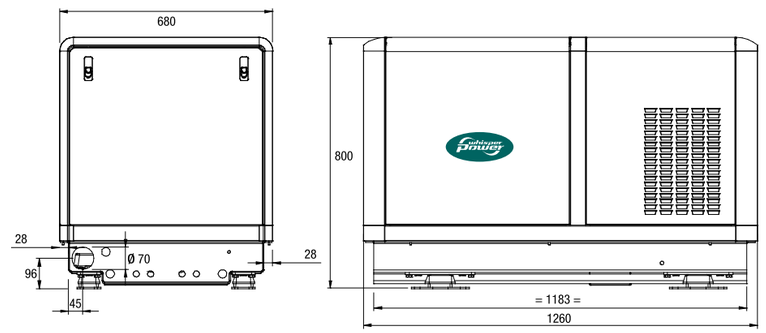
[2] peak power 200% [3] Unit can be configured to 120 V-208 V / 50 or 60 Hz, single / three phase [4] at 7 mtrs

DIMENSIONS & WEIGHT

Length:	1260 mm
Width:	680 mm
Height:	800 mm
Dry weight:	580 kg
Dry exhaust pipe:	Ø 2 inch BSP
Wet exhaust:	Ø 63 mm
Location oil refill cap:	top
Max. operating angle:	25º in all directions

smart energy solutions

INSTALLATION DRAWING M-SQ 20



M-SQ 25
Diesel generator
1.500 RPM
Super Quiet series

DDC control panel 'Digital Diesel Control',
supplied as standard with all sets

Art. no.		
41101005	M-SQ 25 230 V / 50 Hz MARINE	

MAIN SPECIFICATIONS

Nominal power [2]	25 kW at 1.500 RPM
Nominal voltage [3]	230 V - 108 A
Output frequency	50 Hz
Power factor / cos phi	1
Voltage tolerance	± 2%
Frequency tolerance (Hz)	± 3%
Voltage regulation	AVR
Starter battery	12 V
Battery charge current	alternator 50 A
Alternator	air-cooled, no brushes, synchronous
Sound level [4]	58 dBA

SPECIFICATIONS DIESEL ENGINE

Engine model	S4S
Number of cylinders	4
Cylinder capacity	3331 cc
Bore & stroke	4 x 94 x 120 mm
Air consumption	2.8 m³/min
Engine cooling	indirect watercooling
Fuel consumption (no load - full load)	1-8 l/hour

REMOTE CONTROL FOR WHISPER GENERATOR

40209102	DDC panel: Digital Diesel Control, standard for every Whisper generator	standard
40209102	Additional 2nd panel: DDC panel/slave version for second start/stop location	
	See page 30 for optional displays, controls and pc-link	

ACCESSORIES & OPTIONS

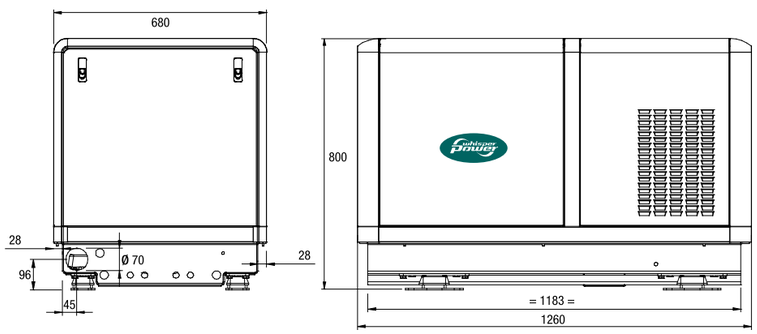
41101006	M-SQ 25 230 V / 50 Hz MARINE	ungrounded, wet exhaust
41101030	M-SQ 25 230 V / 50 Hz MARINE	keelcooling, dry exhaust
41101305	M-SQ 25 230 V / 50 Hz MARINE	wet exhaust, 3-phase
41101055	M-SQ 30 120/240 V / 60 Hz MARINE	wet exhaust, dual voltage
41101355	M-SQ 30 120/240 V / 60 Hz MARINE	wet exhaust, 3-phase
40230221	Water inlet kit 25 mm (1")	wet exhaust
40230274	Syphon breaker kit 25 mm (1")	wet exhaust
40230254	DELTA Exhaust kit 63 mm (2½")	wet exhaust
40230264	DELTA Water-gas separ. kit 63 mm (2½")	wet exhaust
40201894	Boxcooler kit	keelcooling, dry exhaust
40201889	Dry exhaust kit 2"	keelcooling, dry exhaust

[2] peak power 200% [3] Unit can be configured to 120 V-240 V / 50 or 60 Hz, single / three phase [4] at 7 mtrs

DIMENSIONS & WEIGHT

Length:	1260 mm
Width:	680 mm
Height:	800 mm
Dry weight:	580 kg
Dry exhaust pipe:	Ø 2 inch BSP
Wet exhaust:	Ø 63 mm
Location oil refill cap:	top
Max. operating angle:	25º in all directions

INSTALLATION DRAWING M-SQ 25



smart energy solutions

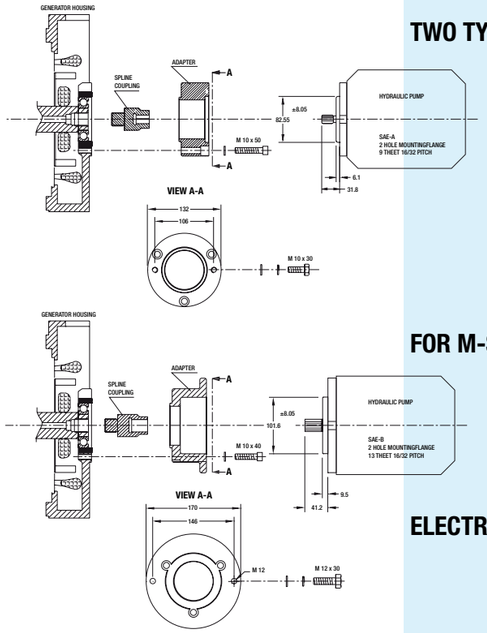
M-SQ
Generator PTO

Art. no.		
50201399	PTO kit SAE A, 9-tooth	M-SQ 8 / 10 / 12 / 16
50201398	PTO kit SAE B, 13-tooth	M-SQ 8 / 10 / 12 / 16
50201598	PTO kit SAE B, 13-tooth	M-SQ 20 / 25

WHISPERPOWER M-SQ GENERATOR AS POWER SOURCE FOR HYDRAULICS: POWER TAKE OFF

Hydraulics are frequently used on boats, and with good reason: a pump system with pressurised oil supplies a constant and immediately available mechanical force for the bowthruster, stabilisers, auxiliary propeller or sail controls.

A WhisperPower generator (8-25 kVA models) can function as an exellent hydraulic power source in this context. Using Power Take Off, you can easily adapt your diesel engine for an additional task for example to power a hydraulic pump.



TWO TYPES: SAE A AND SAE B

Power Take Off is a stainless steel flange connected to the Whisper engine drive shaft, to whitch the central hydraulic pump is fitted.

Two types are aveilable:
- for hydraulic pumps with 9-tooth SAE A connection
- for hydraulic pumps with 13-tooth SAE B connection

Hydraulic pumps are usually available from the supplier of the relevant hydraulic system. Consult your WhisperPower agent for advice on this issue.

FOR M-SQ SERIES FROM 8 KW

Power Take Off requires more power, especially if your generator needs to power the hydraulic system as well as the rest of your equipment.
It is therefore only available for the M-SQ 8 / 10 / 12 / 16 / 20 and 25 - 50 Hz (M-SQ 7 / 9.5 / 11 / 15 / 20 and 30 - 60 Hz) models.

ELECTRICITY, HYDRAULIC PRESSURE OR BOTH

With the optional Hydraulic Boost Function the M-SQ can be set to three different functions:
- generating electric current
- powering the hydraulic system
- a combination of both

Simultaneous use of these functions depends on teh energy required by each:
naturally every generator model has a maximum capacity.

WHISPERPOWER 11kW HYDRAULIC GENERATOR

41607005	Hydraulic Powerpack 11 kW - (Designed to operate hydraulic systems without electrical generator) HxWxL: 640 x 575 x 1060 mm

smart energy solutions

Marine Installation kits

Water inlet kit

DELTA Water/gas separator kit

DELTA Exhaust kit

Syphon Breaker

Dry exhaust kit

Art. no.

WATER INLET KITS

Water inlet kit consisting of:
Water strainer, hoses, hose clamps, through-hull fitting and seacock

40230201	Water inlet kit 12.5 mm (1/2") for M-SC 3.5 - wet exhaust
40230211	Water inlet kit 20 mm (3/4")
40230221	Water inlet kit 25 mm (1")

SYPHON BREAKER KITS

Syphon breaker kit consisting of:
Syphon breaker, hoses and hose clamps

40230272	Syphon breaker kit 12.5 mm (1/2") for M-SC 3.5 - wet exhaust
40230273	Syphon breaker kit 20 mm (3/4")
40230274	Syphon breaker kit 25 mm (1")

DELTA EXHAUST KITS

DELTA Exhaust kit consisting of:
Exhaust silencer/waterlock with unique rotating connections, through-hull fitting, hoses and hose clamps

40230251	DELTA Exhaust kit (1 5/8")	40 mm
40230252	DELTA Exhaust kit (2")	51 mm
40230254	DELTA Exhaust kit (2 1/2")	63 mm
40230093	DELTA Silencer/waterlock	40 mm
40230094	DELTA Silencer/waterlock	51 mm
40230190	DELTA Silencer/waterlock L 51	16 liter
40230191	DELTA Silencer/waterlock L 63	16 liter
40230192	DELTA Silencer/waterlock L 76	16 liter

DELTA WATER/GAS SEPARATOR KITS

DELTA Water/gas separator kit consisting of:
Water/gas separator with unique rotating connections, through-hull fitting, hoses, hose clamps and seacock

40230261	DELTA Water-gas separator kit (1 5/8")	40 mm
40230262	DELTA Water-gas separator kit (2")	51 mm
40230264	DELTA Water-gas separator kit (2 1/2")	63 mm
40230097	DELTA Water-gas separator	40 mm
40230098	DELTA Water-gas separator	51 mm
40230193	DELTA Water-gas separator L 51	16 liter
40230194	DELTA Water-gas separator L 63	16 liter
40230195	DELTA Water-gas separator L 76	16 liter

DRY EXHAUST KIT

The Dry Exhaust kit contains two silencers:
an absorption and a resonance muffler including fitting material

40201320	Dry exhaust kit 1" for the M-SC 3.5 / 6 / 10 / 11 and M-SQ 6 / 7 keelcooling
40201875	Dry exhaust kit 1 1/2" for the M-SQ 8 / 9.5 / 10 / 11 / 12 / 15 / 16 / 20 keelcooling
40201889	Dry exhaust kit 2" for the M-SQ 25 / 30 keelcooling

Information about starter batteries for Whisper generators: see page 30

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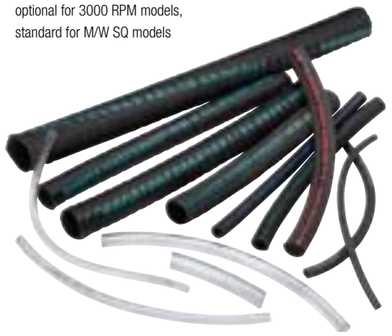
Marine Installation kits

Fuel kit

Anti-vibration kit,
optional for 3000 RPM models,
standard for M/W SQ models



Art. no.

BOXCOOLER KITS

40201303	Boxcooler kit for M-SC 6 and M-SQ 6 / 7
40201873	Boxcooler kit for M-SQ 8 / 9.5 / 10 / 11 / 12 / 15
40201874	Boxcooler kit for M-SQ 16 / 20 - 60 Hz
40201894	Boxcooler kit for M-SQ 25 / 30 and M-SQ 20 - 50 Hz

FUEL KIT FOR MARINE USE

40230205	Fuel kit for the M-SC and M-SQ generator systems

Fuel kit consisting of: fuel filter/water separator, hose clamps and couplings.

BASE PLATE KITS

40230207	Base plate kit M-SC 3.5 (includes art. no. 40230217)
40230209	Base plate kit M-SC 6P / 8P (includes art. no. 40230217) only polyester version
40230217	Anti-vibration mounts, up to 280 kg

Anti-vibration kit consisting of: shock mounts and installation material.

WATERHOSE FOR COOLING

		price p/m
50220057	Rubber flexible coolant hose (1/2")	13 x 21 mm (drum 20 m)
50220011	Rubber flexible coolant hose (3/4")	18 x 26 mm (drum 20 m)
50220012	Rubber flexible coolant hose (1")	25 x 34 mm (drum 20 m)
50220013	Rubber flexible coolant hose (1 1/4")	32 x 41 mm (drum 20 m)
50220055	Transparant coolant hose with metal spiral	13 x 19 mm (drum 20 m)
50220056	Transparant coolant hose with metal spiral	19 x 26 mm (drum 20 m)
50220050	Transparant coolant hose with metal spiral	25 x 33 mm (drum 20 m)

MARINE FUEL HOSE

	CE ISO 7840 A1 / SAE J 1527 USCG A1	price p/m
50220063	Marine fuel hose for diesel	8 x 16 mm (drum 20 m)

EXHAUST HOSE

	CE ISO 13363	price p/m
50220033	Exhaust hose (1 5/8")	40 mm Ø (inner diameter)
50220035	Exhaust hose (2")	51 mm Ø (inner diameter)
50220036	Exhaust hose (2½")	63 mm Ø (inner diameter)

The Whisper Power rubber exhaust hose is a very flexible currugated hose (but smooth inside for low back pressure).
This exhaust hose complies with US ABYC - and CE standards for marine exhaust hose (ISO 13363)

BATTERY CABLE

		price p/m
50213070	Red	16 mm² (drum 50 m)
50213071	Black	16 mm² (drum 50 m)
50213075	Red	25 mm² (drum 25 m)
50213076	Black	25 mm² (drum 25 m)
50213085	Red	35 mm² (drum 25 m)
50213086	Black	35 mm² (drum 25 m)

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Marine installation kits

B-kit contents

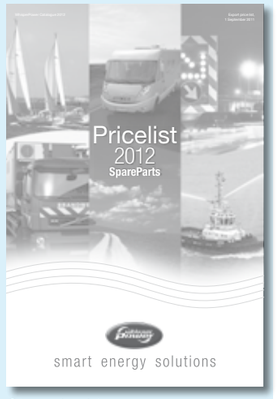
Calorifier kit

No. Art.

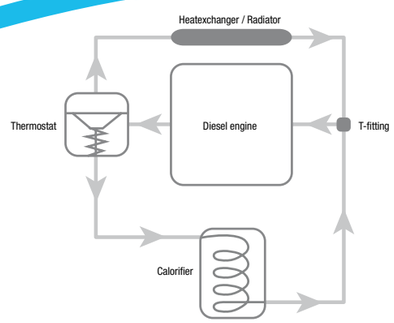
SERVICE KITS FOR MARINE USE

These kits are available for maintenance or to have the essential parts at hand.
The A-kits include filters, V-belts and impeller.
Our B-kits are more extensive, including seals and various mechanical parts.

40201260	A-kit	SC-3.5 - 3.000 RPM
40201860	A-kit	M-SC 6 and W-SC 10 - 3.000 RPM
40201861	B-kit	M-SC 6 - 3.000 RPM
40201761	B-kit	M-SC 10 - 3.000 RPM
40201860	A-kit	M-SQ 6 - 1.500 RPM
40201761	B-kit	M-SQ 6 - 1.500 RPM
40201460	A-kit	M-SQ 8 and W-SQ 12 - 1.500 RPM
40201653	B-kit	M-SQ 8 and M-SQ 10 - 1.500 RPM
40201461	B-kit	M-SQ 12 - 1.500 RPM
40201360	A-kit	M-SQ 16 - 1.500 RPM
40201361	B-kit	M-SQ 16 - 1.500 RPM
40201560	A-kit	M-SQ 20 and W-SQ 25 - 1.500 RPM
40201561	B-kit	M-SQ 20 and W-SQ 25 - 1.500 RPM



Spare parts catalogue:
Now available in print or on our website



CALORIFIER KIT - HOT WATER FROM THE GENERATOR

It is very simple to use a WhisperPower Generator as a source for hot water. The temperature of the coolant oulet is higher than 90°C. This hot coolant can be used to warm up a calorifier. Whitin 15 minutes you can have 80 liters of hot water (80°C). Installation kits to connect the calorifiers are available:

40245030	Calorifier kit for the M-SC 6 / 8 / 10 and M-SQ 6
40245031	Calorifier kit for the M-SC 8 / 10 / 12

The hot water can also be used for heating.
This priciple is well known as CHP (Combined Heat Power generation). Other models on request

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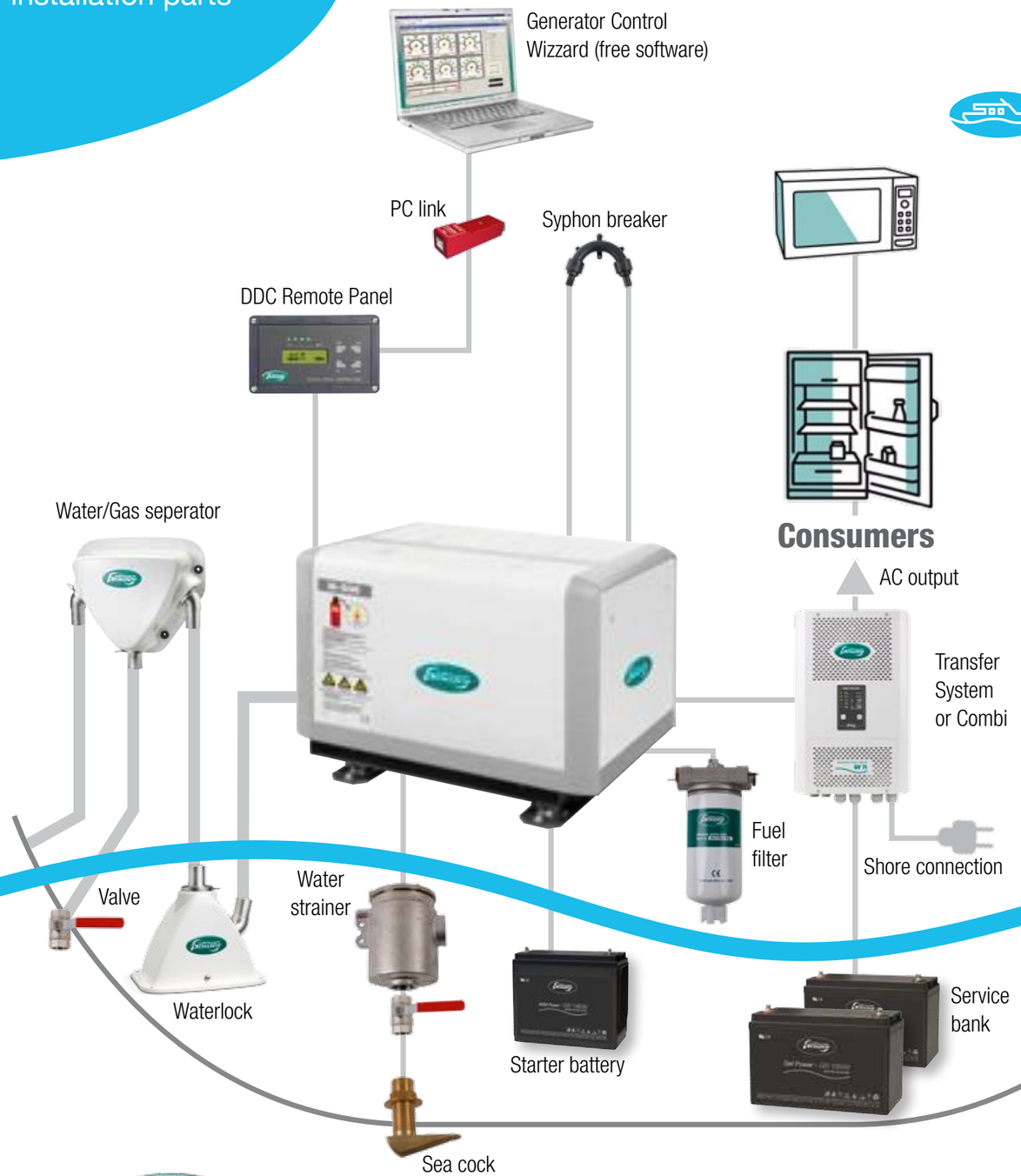
‘All around the generator’
Essential installation parts



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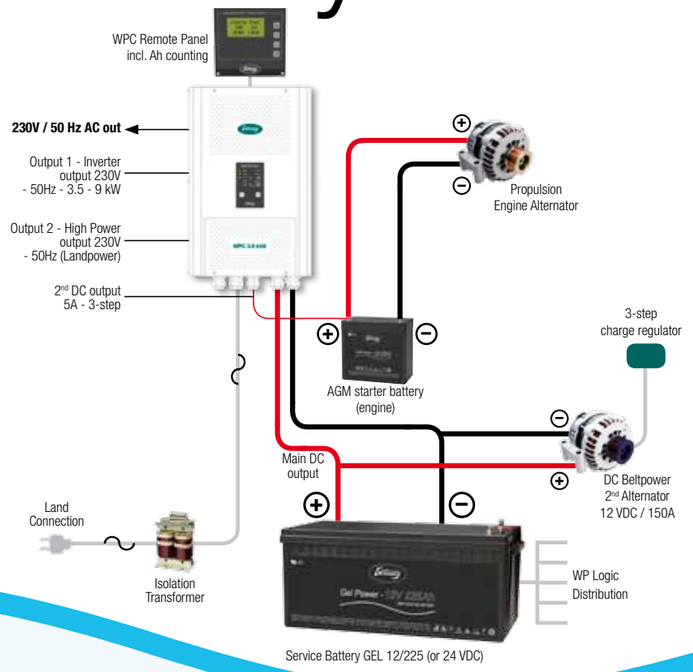
WhisperPower
World Class Systems

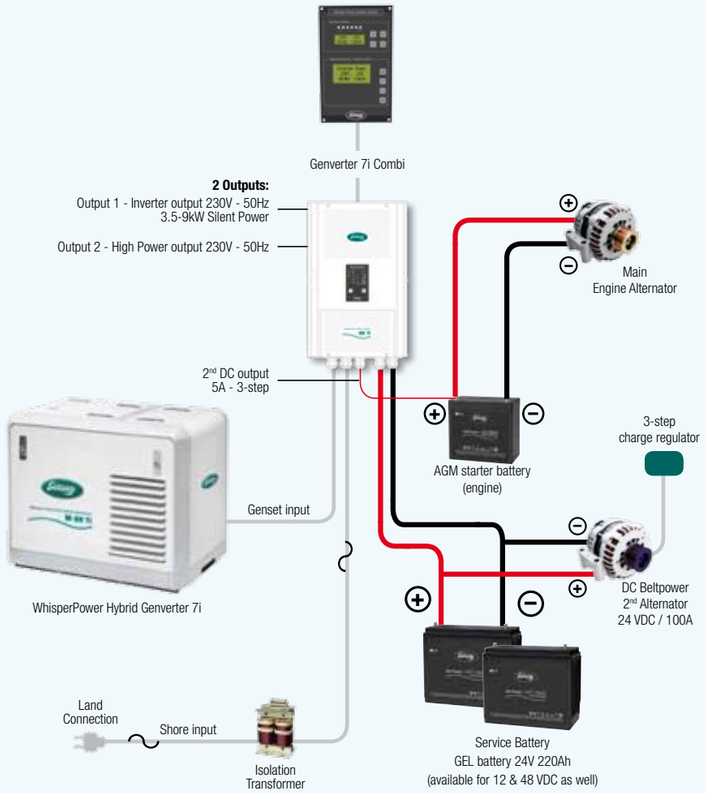
Basic Comfort System

The Basic Comfort system is the smallest system. It consists of a 3.5 kW Whisper Power Centre sine wave inverter/battery charger, a remote control panel with energy monitor, shore connection with isolation transformer (optional) and a set of long-life GEL power batteries.



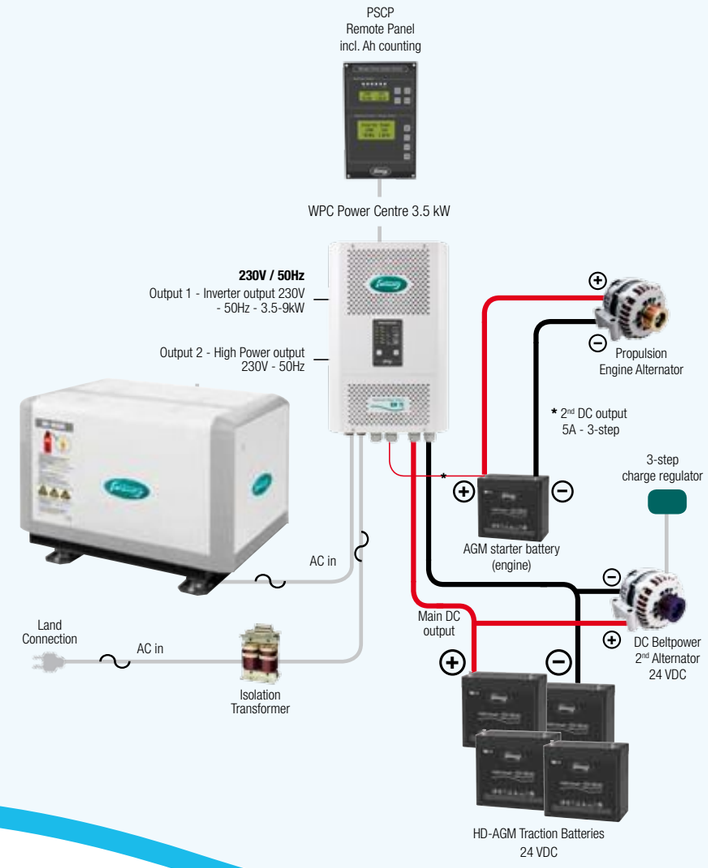
Advanced System

The Advanced System consists of the GENVERTER 7i, a variable speed generator that supplies 24 V to the onboard batteries and/or 230 VAC power via the WPC (Whisper Power Centre) inverter/battery charger, Power System Control Panel with built-in battery monitor and a set of GEL batteries. It can feed the complete DC and AC board system. Total 230 VAC power rating is 7 kW, sufficient for electric cooking, air conditioning, a washing machine or dishwasher and other 230 V devices. 'Silent power' is supplied by the highly reliable and efficient sine wave inverter (3.5 kW) that can also serve as a booster in case of limited shore power availability. The three-stage battery charger supplies a charge current up to 90 A. The system enables complete plug & play installation, with the application of variable speed permanent magnet technology providing considerable savings in fuel consumption. Also available for 12 VDC and 48 VDC batteries.



Admiral System

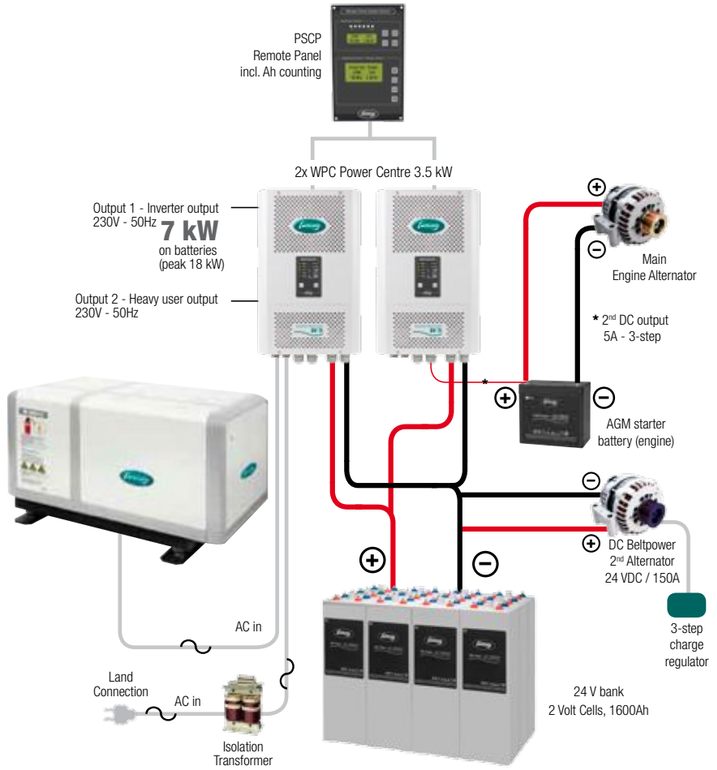
The Admiral System has been developed for yachts and small professional vessels longer than 12 metres. Its total capacity is 9.5 kW with sufficient peak power to start inductive loads. It is based on the super silent WhisperPower SQ 6, 1500 rpm generator, of which the AC output is connected directly to the WhisperPower Centre. Additionally, the Whisper Power Centre has a shore connection, with the option of an isolation transformer. The Power System Control Panel (PSCP) controls both the Whisper generator and the 3.5 kW Whisper Power Centre inverter/battery charger. A shortage of shore power can be compensated by the Whisper Power Centre via the batteries. The system is equipped with WhisperPower High Density deep cycle AGM batteries for 700 full cycles.

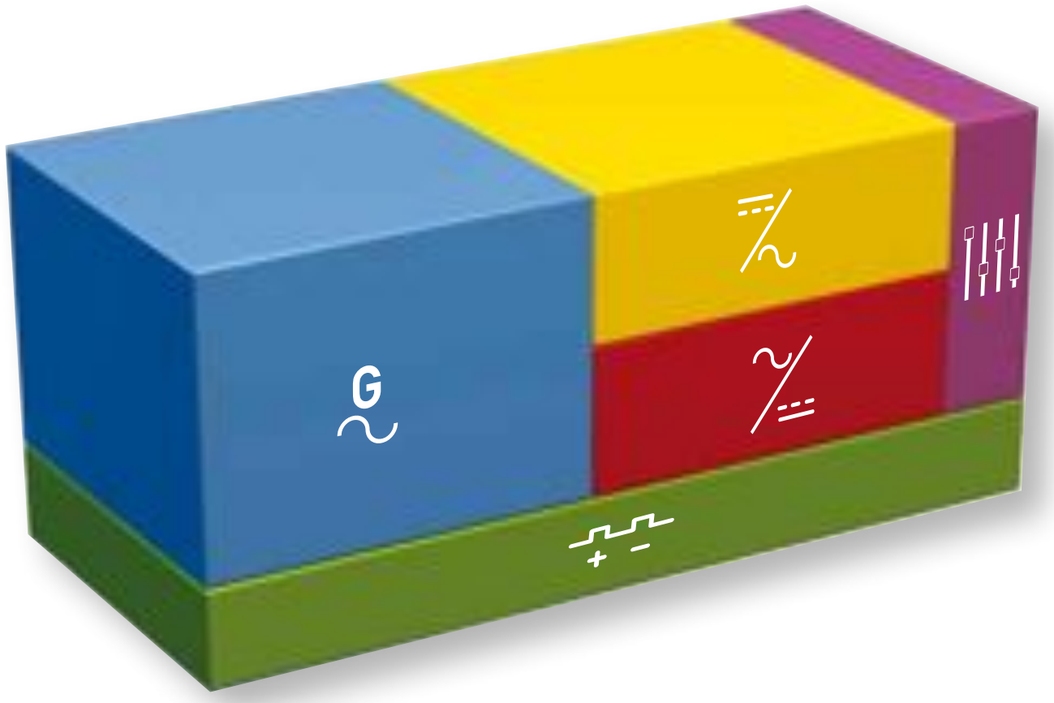


Royal System

The Royal System offers the perfect solution for yachts and professional vessels longer than 16 metres. It is based on the WhisperPower SQ 12 (12 kW) basic generator, linked to two parallel connected Whisper Power Centres of 3.5 kW. The total system capacity is nearly 20 kW, while the 'Silent power' is 7 kW and the charge capacity 180 A. The system can also be configured as a 3 phase (3x400 VAC) power system, with 3 PowerCentre's connected in parallel. Royal Systems are normally supplied with 2- VOLT GEL power traction batteries.

smart energy solutions





Hybrid Generator

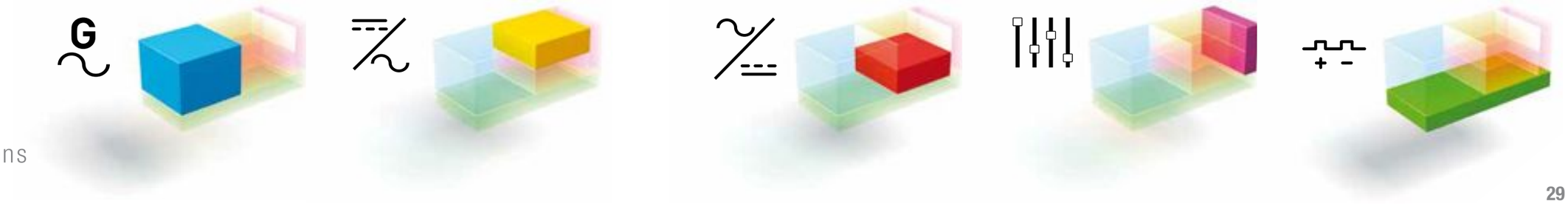
Concept explained

GENVERTER SERIES: FUEL EFFICIENT, COMPACT & SILENT

The WhisperPower M/W-GV 7i has been designed to combine the following power system functions in one box: a diesel generator with Permanent Magnet fly wheel alternator, a sine wave inverter, a switch-mode high efficiency 3-stage battery charger, a land power connection and an AC power distribution device. At low power demand the M/W-GV 7i will switch to the 2 kW (12 VDC) or 3.5 kW (24/48VDC) sine wave inverter (silent mode) and the diesel engine will be switched off. The unit has 12, 24 or 48 V DC charging capabilities for the main service bank. The inverter operates bi-directionally and will charge the battery in case land power is available. At higher power demand the diesel generator will start automatically to re-charge the service battery and provide AC power to the various appliances. The diesel engine will rotate faster when more energy is required (max speed 3400 RPM) offering a maximum power of 3.8 kW + 2 to 3.5 kW provided by the battery and switches off when the battery is fully charged and switches back to a low 2400 rpm when the demand is low. The system operates with any battery: wet lead-acid, AGM, GEL and, later on, Lithium-ION.

BUILDING BLOCKS OF THE GV SYSTEM

- I cylinder liquid cooled diesel engine with integrated permanent magnet fly wheel alternator.
- 230 V Sine Wave inverter supplies 2 to 3.5 kVA AC power at silent mode and 3.8 kVA at generator mode.
- 3-stage switch-mode battery charger to charge the 12/24/48 V DC service bank.
- Transfer switch utility/land power - inverter - consumers.
- Option: Battery to be mounted below the GV 7i.



smart energy solutions

Remote Control panels

Art. no.

REMOTE CONTROL FOR WHISPER GENERATOR

WhisperPower generator sets are supplied with the very advanced
"Digital Diesel Control" system (DDC).
The DDC performs automatic starting and stopping, it offers many monitoring functions and shows a large number of actual and historical parameters.
Further it supports faultfinding and maintenance.

Suitable to operate with conventional or CAN-bus based communication protocols.

40209102	DDC panel: Digital Diesel Control, standard for every Whisper generator	standard
40209102	Additional 2nd panel: DDC panel/slave version for second start/stop location	plus price
67030510	PC Link Industrial, RS485/USB ISO - to connect DDC / Whisper Control to Internet and/or PC	

DDC control panel 'Digital Diesel Control'

INTERFACE TO OTHER BUS SYSTEMS

67031550 WhisperConnect Interface:
from Whisper system (RS 485) to for example MasterBus,
includes connectors and 1 metre of cable.

WhisperConnect Interface

Connection to other bus system

WhisperConnect Interface:
connection to various bus systems

Wizzard downloadable from website

PC Link between Whisper and PC:
for adjustment and / or monitoring

WPC-PSCP Power System Control Panel & WPC-BSI 500

Art. no.

WPC-PSCP POWER SYSTEM CONTROL PANEL

Your system status information at a glance

- Easy-to-connect remote panel for use with a WhisperPower generator and WPC
- Standard supplied with Genverter 7i
- All system data available with only one remote panel
- Includes extended auto start/stop functionality
- Bright LCD displays with backlights
- Easy set-up of input current limit
- Integrated datalogger with SDcard storage

Art. Nr.	Item
60201001	WPC-2000-12 Whisper Power Centre
60201002	WPC-3500-24 Whisper Power Centre
60201003	WPC-4000-48 Whisper Power Centre
60201082	WPC-BSI 500 Battery Status Interface
60201084	WPC-RS232 Serial Interface
60201086	WPC-BTS Battery Temperature Sensor

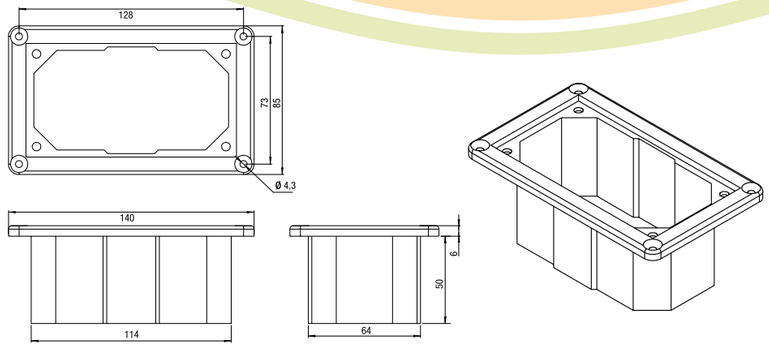
WHISPER POWER CENTRE BATTERY MONITOR INTERFACE

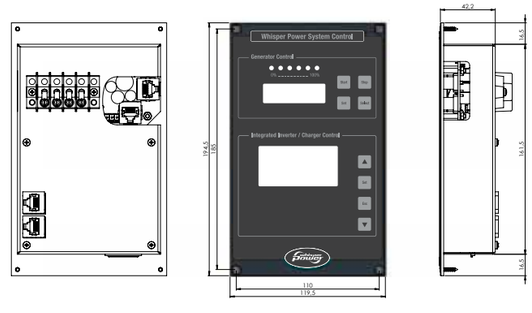
Your battery tank level monitor, all battery information at a glance

- To be used with WPC-PSCP panel
- Accurate energy monitoring of your battery bank
- No sudden empty battery: precise 'time remaining' indicator (hrs, min)
- Calculation of ampere hours consumed
- State of charge indicator in %
- Various programmable alarms
- Easy to use, plug and play installation
- 500A - 1200A Shunt

Art. Nr.	Item
60201087	WPC 500A/50mV shunt
60201088	WPC 1200A/50mV shunt

INSTALLATION DRAWING DDC PANEL





smart energy solutions

Remote Control panels

High resolution full color touch screen (7 Inch)

WhisperConnect Interface,
standard delivered with 'touch' panel

COMING UP:

3.5 inch full colour touch screenpanel (Summer 2012)

Art. no.

FULL COLOR TOUCH SCREEN (7 INCH): OPTIONAL

All relevant information about the generator system is clearly indicated on this high resolution 7' TFT widescreen (16:9) display with LED backlight and full vector graphic capabilities. The panel include a set-up mode for automatic starting and stopping, high accuracy Volt/Hz/A/kVA read-out and a starter battery status indicator. Extended historical information, time-to-service and various alarms are standard features for the touch screen display.

Suitable to operate with conventional or CAN-bus based communication protocols.
- 7' TFT color display, LED backlight
- 800 x 480 pixel (WVGA) resolution, 64 K colors
- Advanced vector graphics
- Resistive touchscreen
- 64 MB user memory
- 10/100 Ethernet interface, USB interface
- Connection to bus systems using optional plug-in modules
- Slim design. Mounting depth less than 50 mm

40280101 Full color touch screen (7 Inch)

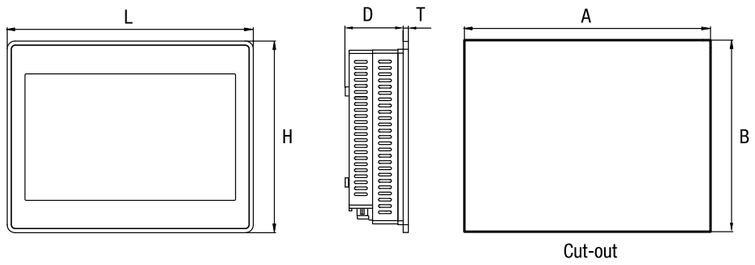
67030501 WhisperConnect Interface PS:
from Whisper system (RS 485) to for example MasterBus, including Power Supply, includes connectors and 1 metre of cable.

For connection between 7 Inch Touch-Panel and Whisper are WhisperConnect interface (1) and Mod-Bus interface (2) required

DIMENSIONS

Length = L:	187 mm
Height = H :	147 mm
Width = D + T:	45 + 4 mm
Cut-out = A x B:	176 x 136 mm

INSTALLATION DRAWING TOUCH SCREEN 7 INCH



Cut-out

smart energy solutions

WBM WhisperPower Battery Monitor

WBM shunt
500A/50mV

HIGH PRECISION BATTERY MONITOR

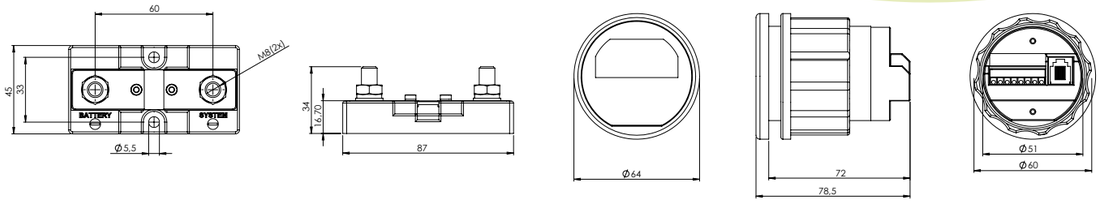
- The window to your battery
- Accurate energy monitoring of one or two battery banks
- No sudden empty battery: precise 'time remaining' indicator (hrs, min)
- Calculation of ampere hours consumed
- State of charge indicator in %
- Various programmable alarms
- Easy to use, plug and play installation

Art. Nr.	Item
40290300	WBM 6mtr Connection accessory kit
40290301	WBM 12mtr Connection accessory kit
40290303	WBM 3mtr Quick Connection kit
40290304	WBM 10mtr Temperature sensor kit
40290305	WBM-RS-232 Communication kit
40290306	WBM-USB Communication kit
40290307	WBM1:5 Voltage prescaler kit
40290308	WBM Alarm output expander kit
40290320	WBM1200A/50mV shunt
40290321	WBM1200A/50mV shunt (aanpassen txt)

SPECIFICATIONS BATTERY MONITOR

Parameter / Art. Nr.		WBM-Basic 40290310	WBM-Pro 40290311	WBM-Pro HV 40290312
Technical specifications				
Supply voltage range		9.35 VDC	9.35 VDC	14.70 VDC
Supply current[1] :	@Vin=24VDC	7 mA	7 mA	5 mA (@Vin=48VDC)
	@Vin=12VDC	9 mA	9 mA	6 mA (@Vin=36VDC)
Input voltage range (auxiliary battery)		2.35 VDC	2.35 VDC	2.35 VDC
Input voltage range (main battery)		0.35 VDC	0.35 VDC	0.70 VDC
Input current range[2]		-999..+999A	-9999..+9999A	-9999..+9999A
Battery capacity range		20..999 Ah	20..9990 Ah	20..9990 Ah
Operating temperature range		-20..+50°C	-20..+50°C	-20..+50°C
Readout resolution :	voltage	± 0.1V (0..35V)	± 0.01V (0..35V)	± 0.01V (0..70V)
	current	± 0.1A (0..100A)	± 0.1A (0..200A)	± 0.1A (0..200A)
	current	± 1A (100..999A)	± 1A (200..9999A)	± 1A (200..9999A)
	capacity range	± 0.1Ah (0..100Ah)	± 0.1Ah (0..200Ah)	± 0.1Ah (0..200Ah)
	capacity range	± 1Ah (100..999Ah)	± 1Ah (200..9990Ah)	± 1Ah (200..9990Ah)
	state-of-charge (0..100%)	± 0.1%	± 0.1%	± 0.1%
	time remaining (0..24hrs)		± 1 mn	± 1 mn
	time remaining (24..240hrs)		± 1 hr	± 1 hr
	temperature (-20..+50°C)[3]		± 0.5°C	± 0.5°C
Voltage measurement accuracy		± 0.3%	± 0.3%	± 0.3%
Current measurement accuracy		± 0.4%	± 0.4%	± 0.4%
Dimensions :	frontpanel / body diameter	ø 64 mm / ø 52 mm	ø 64 mm / ø 52 mm	ø 64 mm / ø 52 mm
	total depth / weight	79 mm / 95 gr	79 mm / 95 gr	79 mm / 95 gr
Shunt dimensions :	footprint	45 x 87 mm	45 x 87 mm	45 x 87 mm
	height	17 mm (base) / 35 mm (high current fasteners)	17 mm (base) / 35 mm (high current fasteners)	17 mm (base) / 35 mm (high current fasteners)
	weight	145 gr	145 gr	145 gr

[1] Measured with backlight and alarm relay turned off. [2] Depends on selected shunt. With standard delivered 500A/50mV shunt (350A continuous), the range is limited to -600..+600A.



Maintenance free heavy-duty batteries
AGM power

AGM HD

Art. no.

AGM POWER

	Type	Dimensions (l x w x h)	Weight
40290060	12 V / 55 Ah deep cycle AGM battery *)	229 x 138 x 235 mm	18 kg
40290061	12 V / 80 Ah deep cycle AGM battery *)	350 x 167 x 180 mm	24 kg
40290031	12 V / 100 Ah deep cycle AGM battery *)	328 x 172 x 222 mm	30 kg
40290062	12 V / 145 Ah deep cycle AGM battery *)	340 x 173 x 285 mm	44 kg
40290063	12 V / 200 Ah deep cycle AGM battery *)	522 x 240 x 219 mm	60 kg
40290064	12 V / 260 Ah deep cycle AGM battery *)	520 x 268 x 220 mm	74 kg
40290261	6.0 VDC / 260 Ah AGM High Density Power	295 x 180 x 274 mm	37.0 kg
40290262	6.0 VDC / 312 Ah AGM High Density Power	295 x 180 x 346 mm	48.5 kg
40290263	6.0 VDC / 390 Ah AGM High Density Power	295 x 180 x 405 mm	54.5 kg
40290271	12.0 VDC / 234 Ah AGM High Density Power	387 x 180 x 346 mm	66.0 kg

M8 Bolt connection for all battery models

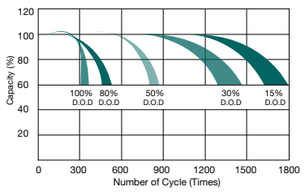
Deep cycle Absorbed Glass Mat battery with 10 years floating design life, specially designed for cyclic discharge usage. Products are applicable for marine, mobile energy and PV energy systems.

SPECIFICATIONS BATTERY (20 hrs discharge spec.)

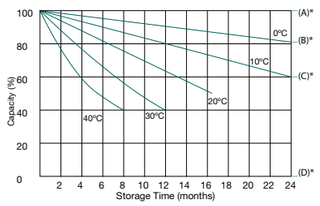
	55 Ah	80 Ah	100 A	145 Ah	200 Ah	260 Ah
Charge/discharge parameter						
Constant voltage Charging (IU, float)	13.60 to 13.80 VDC at 25°C					
Cyclic Charging (IUU, absorption)	14.25 to 14.60 VDC at 25°C					
Recommended charging current limit (higher possible)	16.5 A	24.0 A	30.0 A	44.0 A	60.0 A	78.0 A
Temperature ratio	4 mv / cell / °C					
Discharge cut off voltage	1.70 V at 0.2 °C (A) <= 1.0°C					
100% depth of discharge D.O.D.						
Rated Capacity at 25°C						
20 hr discharge	58.6 Ah	85.3 Ah	104 Ah	167 Ah	226 Ah	278 Ah
10 hr discharge	55.0 Ah	80.0 Ah	100 Ah	145 Ah	200 Ah	260 Ah
5 hr discharge	44.5 Ah	65.0 Ah	89 Ah	131 Ah	180 Ah	220 Ah
Peukert Coefficient	1.21<P<1.24					
Time reserve min. 25 ampére discharge	92 min.	146 min.	190 min.	305 min.	455 min.	630 min.
Self discharge	less as 3% per month at 25°C					
Storage time AGM-power batteries can be stored for maximum	6 months at 25°C. Charging recommended before using.					
Battery parameters						
Cranking amps at 25°C (5 sec)	550 A	800 A	1000 A	1450 A	2000 A	2600 A
Cycle life (at 80% of D.O.D.)	400	400	400	400	400	400
Internal resistance (approx.)	6.0 MΩ	5.5 MΩ	5.0 MΩ	4.5 MΩ	4.0 MΩ	3.5 MΩ

*) 10 Hr discharge rate to 1.75 V per cell at 25°C,
See our data sheets for 20 Hr/ 100 Hr discharge rates

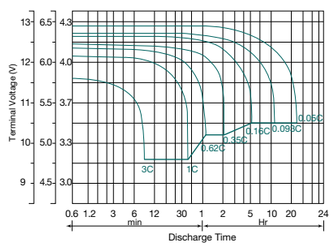
Life characteristics of cyclic use



Storage characteristics



Discharge characteristics curve



Maintenance free heavy-duty batteries
GEL power

Art. no.

GEL POWER - 12 VOLT BATTERIES

	Type	dimensions (l x w x h)	weight
40290070	12 V / 100 Ah deep cycle pure GEL battery*)	328 x 172 x 222 mm	30 kg
40290071	12 V / 145 Ah deep cycle pure GEL battery *)	340 x 173 x 280 mm	44 kg
40290072	12 V / 180 Ah deep cycle pure GEL battery *)	530 x 209 x 214 mm	53 kg
40290073	12 V / 225 Ah deep cylce pure GEL battery *)	522 x 240 x 219 mm	65 kg

Deep cycle GEL battery, with 12 years floating design life, superiorly designed for frequent cyclic discharge applications under extreme temperatures. Strong grid applied to insure reliable performance under frequent cyclic discharge use.
400 Cycles could be available at 100% DOD. Offering extra-durable cyclic performance, high efficiency of recovery, which is more suitable for solar, mobility, marine and deep discharge UPS.

SPECIFICATIONS BATTERY (20 hrs discharge spec.)

	100 Ah	145 Ah	180 Ah	225 Ah
Charge/discharge parameter				
Constant voltage Charging (IU, float)	13.60 to 13.80 VDC at 25°C			
Cyclic Charging (IUU, absorption)	14.25 to 14.60 VDC at 25°C			
Recommended charging current limit (higher possible)	20 A	29 A	36 A	45 A
Temperature ratio	4 mv / cell / °C			
Discharge cut off voltage	1.70 V at 0.2 °C (A) <= 1.0°C			
100% depth of discharge d.o.d.				
Rated Capacity at 25°C				
20 hr discharge	100 Ah	145 Ah	180 Ah	225 Ah
10 hr discharge	95 Ah	136 Ah	169 Ah	209 Ah
5 hr discharge	84 Ah	117 Ah	146 Ah	181 Ah
Peukert Coefficient	1.21<P<1.24			
Time reserve min. 25 ampére discharge	165 min.	261 min.	341 min.	450 min.
Self discharge	less as 3% per month at 25°C			
Storage time	AGM-power batteries can be stored for maximum 6 months at 25°C. Charging recommended before using.			
Battery parameters				
Cranking amps at 25°C (5 sec)	1000 A	1450 A	1800 A	2250 A
Cycle life (at 80% of D.O.D)	600	600	600	600
Internal resistance (approx.)	7.5 MΩ	5.0 MΩ	6.0 M Ω	4.0 M Ω

*) 20 Hr discharge rate to 1.75 V per cell ad 25°C. These long life deep cycle batteries are pure GEL (Not just Gel topping), guaranteeing the longest life time and cycle life. 400 Cycles at 100% DOD,
See our data sheets for 20 Hr/ 100 Hr discharge rates

whisper power

smart energy solutions

GEL POWER - 2 VOLT CELLS OPzV

	Type	dimensions (l x w x h)	weight
40290040	2 V / 600 Ah*)	145 x 206 x 647 (692)**)	49 kg
40290041	2 V / 800 Ah	210 x 193 x 647 (692)	67 kg
40290042	2 V / 1000 Ah	210 x 235 x 647 (692)	81 kg
40290043	2 V / 1200 Ah	210 x 275 x 647 (692)	97 kg
40290044	2 V / 1500 Ah	210 x 275 x 797 (842)	111 kg

*) Capacity at 10 hrs discharge at 20°C. **) (this value) Includes valve on top. OPzV type battery for verticle or horizontal use with tubular plates for extended cycle life (80% DOD > 1200 cycles). 6 Cells needed for a 12 V battery configuration, 12 cells needed for a 24 VDC configuration

LITHIUM ION BATTERIES

Information about Lithium ION batteries at request.

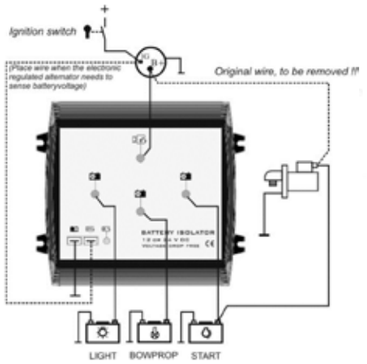
WBI-series
Whisper Power
Battery Isolator **&**
WBL Whisper Power
Battery Link

LOW VOLTAGE DROP BATTERY ISOLATOR
WBI 150-2 IG • WBI 150-3 IG

Looking for a way to charge your multiple battery banks independently? Without the heat generation of conventional battery isolators. Looking for a robust solution without changing you charging system? Find our best-in-class electronic battery isolator range.

The WBI–series low voltage drop battery isolators have a negligible voltage drop and are therefore the ultimate solution for charging multiple battery banks with charge equipment whose charge voltage cannot be adjusted. Another advantage is that due to the low voltage drop the WBI does not waste charging energy. This results in a very high efficiency.

Art. Nr.	Item
60115002	WBI 150-2 IG (two output)
60115003	WBI 150-3 IG (three output)



WHISPER POWER MICROPROCESSOR CONTROLLED BATTERY LINK
WBL-120

- Simultaneously charging of two batteries
- Intelligent battery monitor function
- Safe battery connect algorithm
- Additional power boost by start assist function
- Easy to install, no adjustment necessary
- Compact and robust

Art. Nr.	Item
60110120	WBL-120

DUTCH QUALITY PRODUCT
MADE IN THE NETHERLANDS

whisper power
smart energy solutions

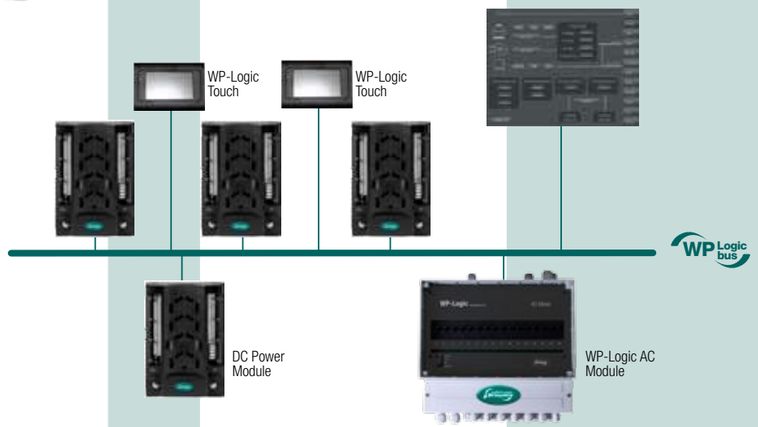
WP-Logic
Whisper Power
Digital Switching System

WP-LOGIC POWERED BY E-T-A

Digital switching • Digital Bus systems • Digital captain functions •
Smart DC distribution • Power management • Load sharing • Monitoring & control

Growing demands regarding convenience and functionality on board require a new technology for a boat's electrical system. Achieving this performance range with today's conventional technology generates a tremendous effort in wiring and mounting. Most of the requested features like power management, alarm systems or supervision are independent systems. All these features will be merged into the WP-LOGIC System. Your experience in combination with the WP-LOGIC System and WhisperPower worldwide sales, engineering and service network will guarantee future success.

Art. Nr.	Item
60116001	WP-Logic DC Panel I / O Module, Smart DC distribution designed for multiple inputs
60116002	WP-Logic DC Power Module, Smart DC distribution for power groups
60116003	WP-Logic AC Distribution Module, Integration of AC load management
60116004	WP-Logic Touch PC Software, the portal for your electrical systems
60116005	WP-Logic 4.3″ Touch Panel, the touch panel for operating the system
60116006	WP-Logic Configuration tools, the configuration and system design tool



E-T-A
Circuit Protection & Control

WP-Combi Series ‘Power to Go’

NEW WHISPERPOWER PRODUCT
FROM APRIL 2012 AVAILABLE
NEW WHISPERPOWER PRODUCT

New label for recreational sailing

Equipment under this label has been developed specifically for recreational applications: Small, lightweight, easy to operate and at an affordable price. The new label includes, among other things, a new range of switch mode battery chargers, the HANDY range. These fully automatic five-stage chargers can be applied universally as chargers for GEL, AGM or open-lead acid 1 batteries. Available models range from 7 Ampere to 50 Ampere for 12 VDC.

Furthermore we introduced two sine wave inverter/battery chargers under the ORANGE label with the following capacities: 12 V / 2000 W/ 80 A, 24 V/ 3000 W/60 A, and 48 V/4000 W, 40 A.

WP-COMBI SERIES ‘POWER TO GO’

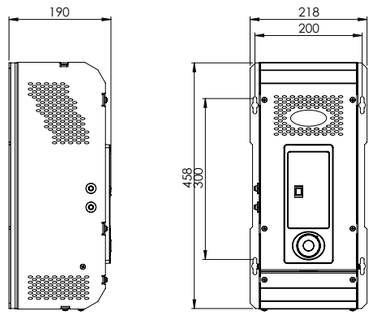
Sine wave inverter/ battery charger • ‘230 VAC from the battery’

- Up to 3 kW 230 VAC/ 50 Hz power,
- Silent and clean operation
- Ideal to operate with solar and wind systems
- Automatic switching from shore/ land power to inverter power
- Fully automatic 3-stage battery charging (two output)
- Adjustable to work with limited land or genset power
- Available for 12, 24 and 48 VDC batteries

Art. Nr.	Item
61112280	WP-COMBI 12/2000-80A
61124360	WP-COMBI 24/3000-60A
61148330	WP-COMBI 48/3000-30A
61112050	Remote Panel WP-Combi

Remote panel

Table top or wall mounting



smart energy solutions

WBC-HANDY Series

WHISPER POWER PORTABLE BATTERY CHARGERS

Your new battery charger will enable you to keep your battery fully charged

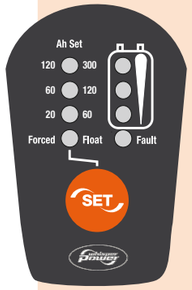
- Advanced 5 step⁺ charge algorithm: adapted charging for WET, AGM and GEL batteries, for a perfect charge of your battery.
- Self adjusted temperature compensation for hot and cold environment, assuring cold start in winter and preventing from overcharging during the summer.
- Easy battery size selection and power supply function enabling forced float charge.
- Equipped with Charging Status Interface, indicating charge phase at a glance.
- Reverse polarity protection with built-in flashlight, helpful when connecting the WBC charger in the dark.
- Standard supplied with permanent installation kit, for fixed installations.

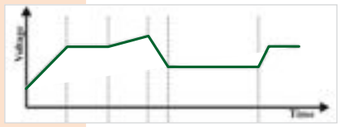
Art. Nr.	Item
61112002	WBC-Handy 20
61112007	WBC-Handy 70
61112015	WBC-Handy 150
61112901	WBC-HANDY fixed installation kit
61112911	WBC-HANDY battery fast connect clamps

WHISPERPOWER WBC-HANDY WITH INTEGRATED FLASH LIGHT

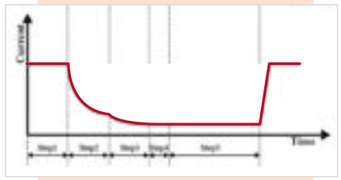
GETTING STARTED

1. Connect the charger’s mains plug to a power socket.
2. Connect the charger’s red cable clamp to the battery’s positive terminal post (+), and the black cable clamp to the battery’s negative terminal post (-).
3. Select the correct mode, battery size (Ah) and battery technology (agm/gel or WET battery), or 13.7 VDC supply.
4. When the green lamp blinks for the select mode, the battery is fully charged.





Charge Curve (U)



Charge Curve (i)

Internationaal

Benelux

United Kingdom

Germany

France

Spain & Portugal

America

China

Pacific

Information and contact
International Adresses

For more information and advice about WhisperPower products and services you can contact our local distributors and technical sales partners.
For an up to date list of adresses and phone numbers go to www.whisperpower.com.

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